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ARMY, NAVY, USAF, OSD & DOE REVIEWS COMPLETED

ESTIMATES OF CAPABILITIES

of the

UNITED STATES COMBAT FORCES IN-BEING

1 September 1951

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NOTICE

The Estimate of Capabilities of the U. S. Combat Forces In-being as of 1 September 1951 is the result of 99 man-weeks of work spread over 10 meeks, 25 June - 1 September 1951. The Research Staff consisted of 17 indi-

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Biology :

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History

Chemistry: 2

Mathematics:

Classics: 3

Physics 1

English: 1

Although eleven of the staff were in the Armed Forces during World War II, nome was in a strategic echelon; and those in Intelligence units were concerned with Tactical rather than Strategic Intelligence. Therefore, the resulting product must be considered the work of laymen and not professionals in either Military Strategy or Strategic Intelligence. The conclusions, which we hope to be reasonable ones supported by the evidence presented, must be considered the products of amateurs and not professional Intelligence. Analysts.

Furthermore, only unclassified materials were used and only 10 weeks available to search them. Few materials back of 1 May 1951 were examined and numerous other sources were not touched, e.g., local newspapers of Mavy ports and cities near Army and Air Force installations. The Intelligence Office of a foreign power using this research technique presumably would have been at work much longer, with a larger staff, covering more materials.

Finally, the Intelligence Office of a foreign power would have data collected through an Espionage System with which to supplement the data here presented, notably on such matters as aircraft and armament production and

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perhaps research and development projects. Therefore, the estimates made and the conclusions reached must be taken as the minimum of information on U.S. capabilities available to a foreign nation's Intelligence Office.

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SECTION I

GENERAL SUMMARY

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U. S. ARMY

[Section II Below]

The U. S. Army is at present in a state of partial mobilization, consequent upon the outbreak of hostilities in Korea in June, 1950. Its present strength is close to the authorized cieling of 1,550,000 men. This force now includes 16 fully organized divisions, 6 of which are in action in Korea, 2 in Japan, 3 in Germany (in addition to the U.S. Constabulary), and 5 in the Zone of the Interior; two of these last have been alerted for movement to Germany in the near future. In addition to these 16 active divisions, there are 12 training divisions in the United States. Plans call for the formation of a total of at least 18 and possibly 22 active divisions and 18 Regimental Combat Teams by 30 June, 1952. Including the Constabulary, this will be equivalent to a force of 25 to 29 combat divisions.

Present forces are equipped with sufficient supplies and weapons for purposes of training and for the conduct of limited operations such as that in Korea. Most equipment, however, is of World War II types. Only limited use of newly designed equipment - notably the 3.5 bazcoka - has been made in Korea. The T-46 medium tank, one batallion of which is in action, is a post-World War II model, but has already been superseded in production by the improved T-47 model. Large orders for production of new equipment are new being placed. For example, it appears that approximately 5,000 T-47 tanks have been ordered under 1951 appropriations. But delivery of much of the equipment now on order will not take place for a year or more. What has so far been accomplished is creation of a production base rather than production of available equipment.

U.S. troops now engaged in action in Korea are almost as numerous as all U.S. troops in combat one year after Pearl Harbor. Total military supplies

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Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0 shipped to the theater of operations in Korea during the first 12 months of hostilities amounted to 10,278,000 measurement tons, as compared with 9,984,000 tons to all theaters in the same period after Pearl Harbor.

The Army is in a position to fulfill adequately its present commitments, but not materially to increase them. In the Far East the forces under General Ridgeway's command are the maximum which can be supported logistically in Korea and are fully capable of carrying on the type of defensive and limited offensive campaign to which they are committed. There appears to be no disposition to attempt again an advance to the northern borders of Korea; manpower is not available to defend the greatly extended front which would then be created. When the 28th and 43rd Divisions join the occupation troops in Germany, the six divisions promised for that function will be complete. A strategic reserve of only 3 trained divisions will then remain in continental United States.

Any considerable fresh military commitments for the use of U.S. ground forces will require further decisive movement toward full mobilization. The rate of production of military equipment will probably not make such a step feasible before the summer of 1952.

U. S. NAVY

[Section III Below]

The Navy has on board at present approximately 755,000 officers and men, the Marines 194,000. Current plans call for Navy to increase by mid-1952 to 805,000, for the Marines to decrease to 176,000, though pending legislation proposes a Marine force of not less than 300,000 or more than 400,000.

There are approximately 1,050 ships in the active fleet, of which 400 have been demothballed since June, 1950. In the reserve fleets are about 1,3770 ships (the Atlantic Reserve Fleet contains 305 major combatant units.

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the Pacific Reserve Fleet 296), and roughly 100 are assigned to Naval Reserve Training.

The major combatant units in the active Atlantic Fleet are 3 CVB, 2 CV, 4 CVL, 7 CVE, 2 BB, 7 CA, 2 CL, 101 DD of all types, 6 DE, 49 SS. The Sixth Fleet is the only major operating force.

The major combatant units in the active Pacific Fleet are 8 CV, 1 CVL, 6 CVE, 2 BB, 6 CA, 2 CL, 87 DD of all types, 12 DE, 27 PF, 34 SS.

The Seventh Fleet and Naval Forces Far East are the major operating forces.

The most important items in the conversion of ships for combat dury are the strengthening of carriers to handle heavier aircraft, modification of DDs to DDEs, and "Guppy" conversions of SS.

Regular Navy and Marine Corps aircraft number about 6,600; the principle types now in use by combatant Naval and Marine forces are: 1) Fighters: F9F, F7F(N), F4U, F2H; 2) Attack Planes: AD, A2D, AJ1; 3) Carrier-based A/S Aircraft: AF2S, AF2W, TBM; 4) Patrol Planes: P2V, PBM, P4M, PB4Y2. In the active fleet at present are 14 carrier air groups and the following squadrons: 13 VS, 10 BC, 30 BP, 3 ZP, 18 VMF and VMF(N), 3 VMBF.

The fleet is still basically equipped with the weapons employed in World War II. Improvements in shipborne ordnance consist mainly of better automatic fire control and faster rates of fire. Important developments in rockets and sonic torpedoes have been announced. Guided missiles are still in the test and evaluation stage.

The Navy is greatly expanding facilities at many of its existing fleet bases. Funds have been appropriated for a new secret base in the At-lantic area, and negotiations are in progress for bases in Spain. Three new air stations are being constructed in the Far East, and the Navy is devoting large funds to developing facilities for jet airdraft at its existing air stations.

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Undersea warfare has the highest priority in Naval planning. Since November, 1949, technological development, training, and expansion of forces for ASW have been greatly stepped up. Experiments are being made with submarines for novel purposes, and much effort is now going into such new projects as the nuclear-fission engine.

The Navy today is the most powerful afloat, able to defeat any other surface fleet in the world. At the same time, the active forces are capable of very great expansion. It is unlikely, however, that any war in the near future will see fleet actions similar to those fought in the Pacific from 1942-1945. Naval forces will be called upon primarily to launch and support large amphibious operations, and to protect both their own units and the merchant navy from air and submarine attack. For these purposes the active fleet is at the moment inadequate. The combatant units afloat appear sufficient only to execute a relatively small amphibious operation over any extended period of time. In other words, they constitute merely a good striking force, even though some naval aircraft may now be able to deliver the atomic bomb. As forces are insufficient and will remain so for some time, despite the existing program for properly equipping small naval and coast guard ships.

The conclusion is inescapable then, that, owing probably to the state of public and congressional opinion rather than to the wishes of the Navy Department, the United States now possess what is fundamentally a peace-time Navy for a state with all the commitments that this country now has.

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[Section IV Balow]

Present Strength,

37 combat wings. The 78 which have been identified are composed of 26 Bombardment, 39 Fighter and 13 Troop carrier. Total personnel: 787,000 (106,500 officers, 687,500 airmen). The total of first-line combat aircraft available is between 4,742 and 5,000 (bombers 677, fighters around 4,000); this means that the 26 Bomb. Wings are under strength and the Fighter Wings have less than a 1 to 1 replacement ratio. The Troop Carrier Wings are adequately supplied with aircraft.

Strength by July 1952.

8 more wings will be added by July 1, 1952 (but these will be combat-ready wings of 4 squadrons). Officer strength by July 1, 1952, will be 136,000, airmen 925,000. The 26 Bomb. Wings should be up to full/and the complement of aircraft and the 39 Fighter Wings should have an adequate reserve. But the 95 wings which will then be in-being will not be fully equipped.

Capabilities, Strategic.

The AF undoubtedly has a sufficient supply of atomic bombs, the planes to get them over the target and the technique and instruments necessary for extremely accurate bombing. But it does not at present have enough planes to maintain a atrategic offensive very long, if plane losses are even moderately high.

Tactical

The AF has no modern light bomber available in quantity. And its fighterbomber strength is not at present adequate for the high attrition rate of operations against modern aircraft and ground fire.

Defense

General Vandenberg's recent estimate that the AF could destroy less than 30% of an attacking bomber force is confirmed by all available data. The AF does Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0

Approved For Release 200470728 PCIA-RDP79R00971A000300020002-0 not possess a fighter capable of effective combat performance at stratospheric levels, and the all-weather fighters needed for interception [F-94 and F-89] seem to be in short supply (of the 16 Fighter Wings identified as part of ADC one at least is flying F-51s and one is even operating with F-47s). The GOC is weefully under-manned; the radar screen for continental U.S. will be reasonably complete by the end of 1951 but not until next year for Alaska. Deployment.

The main weakness is the lack of bases in Europe, where the AF cannot count on using bases in Germany in the event of an enemy offensive. It will have to rely on bases in England and the new bases being built in the Mediterranean. Work on the North African bases is being pushed and building is going on in Cyprus, Crete and Greece. But it is not likely that these new bases will be fit for SAC operations for some time to come. Bases in the Far East are adequate for present and probably for all future operations.

WEAPONS

[Section V Below]

Section V is primarily concerned with developments in the field of weapons and equipment which have taken place since World War II. Many weapons still being used by the armed forces are World War II models - the W1 rifle and the Sherman tank, for example. Detailed descriptions of the characteristics of such items of armament are readily available in The Army Almanac (Washington, 1950), and G. M. Barnes, Weapons of World War II (New York, 1947). Both Barnes and John E. Burchard (ed.), Rockets, Guns and Targets (Boston, 1948), contain information about the problems with which Ordnance and other experts were wrestling at the end of World War II. Many of these problems are still plaguing the weapons development program; but some of our most recent weapons are the

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ELECTRONICS

[Section VI Below]

The development, during World War II, of very small radio tubes for use in proximity fuzes was widely extended. As a result, electronic equipment designed since World War II, while more flexible and efficient than the equipment it replaces, also is generally smaller and lighter.

At the same time, this equipment is designed as a small number of component units rather than a large number of individual parts. Now, if a radio set fails to function, a dozen or so components are tested, rather than a hundred tubes and an equally large number of resistors, condensers, etc. Due to its small size, it is economical, and of course much quicker, to replace the whole equipment. Maintenance of electronic equipment, which became a major problem toward the end of World War II, has thus been greatly simplified.

As a result of the research and development done since the end of

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World War II, military electronic equipment has been developed which is of very high quality and variety. We are far ahead of any other country, except possibly for Great Britain, and we seem to lead her by a considerable extent.

It should be noted that what we have are refinements of World War II equipments. Padically new devices, if any, have been well concealed.

Production, however, is a different matter. In the summer of 1951, production of this new electronic equipment was sufficient in most cases to allow its installation in new aircraft, tanks, ships, etc., but not enough to permit refitting of previously constructed units. On the other hand, by the end of 1951, retcoling and construction of new factories will be largely completed, and by the end of 1952 large quantities of the new electronic equipment will be available.

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SECTION II

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ARMY

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SECTION II

U. S. ARMY

A. General

l. Mission.

The major missions of the U.S. Army as recently stated by the Chief of Staff, Gen. J. Lawton Collins, are

a. To maintain adequate forces in occupation areas and to maintain strategic oversea bases with a strength sufficient to meet extended emergencies, including armed aggression.

b. To aid in bringing the war in Korea to a successful conclusion while maintaining the security of Japan.

c. To develop a general reserve of sufficient size and readiness to provide for the security of the United States.

2. State of Mobilization.

In order to carry out these missions the Army began partial mobilization immediately after the outbreak of hostilities in Korea in June, 1950. The size of the Army was increased from 593,000 on 30 June, 1950 to approximately 1,531,200 on 30 June, 1951. According to official statements these forces are being organized to form 18 combat divisions and 18 regimental combat teams, in addition to the Constabulary in Germany. These will provide the equivalent of 25 combat divisions, together with necessary supporting units. Four additional divisions may be formed before 30 June, 1952, partly by calling to Federal service two additional National Guard divisions and partly by assigning a higher proportion of existing troops to service in divisions.

At present there are 16 divisions in the combat theater, combatready, or in final stages of training. Eight Army eivisions are in the Far EApproved For Release 2004/67/28: CANDAR STAGE PROBLEMS ON THE PROBLEMS OF THE PRO

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Marine division in Korea. Three divisions are in Germany in addition to the Constabulary, which is the equivalent of one division. Five active divisions are in the Zone of the Interior as general reserve; two of these are scheduled for movement to Germany before the end of the year. In addition to these 16 active divisions there are 12 training divisions in the Zone of the Interior.

There has been a corresponding increase in production of military supplies and in appropriations for the over-all needs of the Army.

Appropriations for the Army increased from \$1.4 billions in the fiscal year 1950 to \$19.3 billions in fiscal 1951. For fiscal 1952 the Appropriations Committee of the House of Representatives have approved expenditures of \$20.1 billions. This figure gives only a partial indication of foreseeable expenditure for 1952, since it does not include \$1.4 billions requested for military construction, or the cost of continued combat in Korea which has been estimated at \$7.0 billions.

3. Strategic Factors Governing Mobilisation

Analysis of major emphasis in the Anny budget for the fiscal year 1952 provides a key to certain fundamental factors in general strategic planning. The most striking aspect of the budget is the high proportion of total appropriations requested for major procurement and production. A comparison of expenditure for primary items in the budget for fiscal 1950 with the corresponding percentages projected for 1952 brings out the radical shift of emphasis in respect to procurement:

Object of Expenditures	Percentage of Ar	proprietions
Personnel	1,0.13	21.0%
Major Procurement and Production	6.2	45.6
	,	

All Other Functions

23.9

7.7

Most of the equipment to be provided by the 45.6% of 1952 appropriations devoted to major procurement and production will not be complete and available for use before the latter part of calendar 1952. \$5.5 billions, or more than one quarter of the entire Army budget, are intended solely for tanks and combat and other vehicles, items which have a long production lead time the period intervening between placement of orders and delivery of finished goods. It may be concluded that present mobilization plans are based upon the following assumptions:

a. A major war is not to be expected in the immediate future. Emphasis is therefore being placed upon the creation and maintenance of a production base rather than upon all-out production for immediate use. It is the policy of the Army to encourage manufacturers to operate on a one shift basis, so that there will be a maximum number of plants with production lines in being, which can be put into round-the-clock operation when greater urgency is felt. The Army's Detroit Tank Arsenal, for example, is producing at less than one quarter of capacity, on a one shift basis.

b. War within two or three years is nevertheless so likely that tooling up and initial production of major ordnance and other equipment cannot safely be delayed. The heavy investment now being made in current models of such items as tanks will necessarily discourage radical changes in design for a considerable period in the future. An indication of a sense of urgency in production of equipment is provided by a recent relaxation in U. S. insistence on complete standardization of equipment with the Allies, although discussions are continuing on the .30 vs. .28 caliber rifle.

before the first World War. It seems likely that this size will remain fairly constant unless there is a radical change in the international balance of power, which may be produced either by a spread of the Korean conflict which will lead to all-out mobilization, or by the development of European ground forces strong enough to provide an effective barrier to Soviet forces in Western Europe without permanent U. S. Army support.

li. Relation to Allied Ground Forces.

A basic factor in all army planning is a recognition that the U. S. Army can never approach numerical equality with its probable enemy. A result of this fact is an emphasis on the building of a system of alliances, encouragement of the concept of a United Nations Army, development of a combined staff structure for the North Atlantic Treaty Organization, and the Mutual Defense Aid Program. Although the particulars of these matters lie beyond the scope of the present study, their importance in relation to U.S. Army strength is indicated by the advice of Secretary Marshall to the Senate Foreign Relations Committee, that reduction in U.S. military appropriations would be preferable to a cut in the sum requested for foreign arms aid. Marshall at the same time made American purpose clear when he stated (requesting that his words not be published) "We are proposing dollars to arm men other than our own We are contributing dollars rath r than men, although we have made some sacrifices of our own in Korea. The other side lie., the European Allies is thinking of men."

In pursuance of this policy, one united States has already sent over one billion dollars worth of equipment to its allies, including 4,500 tanks and combat vehicles, 2,900 mejor field artillery pieces, 19,000 general purpose vehicles, as well as small arms, amounition, bazookas, Approved For Release 2004/07/28; Carries R00971A000300020002.0

World War II stocks which are being replaced by new models for the Army's own use. Orders have, however, been placed for the new M-17 medium tank, to be shipped to the allies when produced.

5. Effects of Action in Korea.

The chief immediate effects of experience gained in Korea for army planning and training have been the following:

a. Reaffirmation of the primary role of ground forces in warfare.

In presenting to Congress the Army's 1952 appropriation request for Research and Development, Maj. Gen. Ward H. Maris (Chief, Research and Development Division, Office of the A.C. of S., G-4) stated that allocation of 66% of this budget to the Ordnance Corps "is consistent with the major combat role which must be assumed by ground troops in any war of the foreseeable future."

b. A tougher and longer training program, with more emphasis on physical conditioning, night fighting, and guerilla warfare.

training cadres. At present 30,000 men are returning each month from the Far East to the Zone of the Interior. Preference in this rotation is given to combat troops. Senior officers, including divisional and corps commanders are also rotated after relatively short periods of command so that their experience can be utilized in training of fresh troops.

d. Greater emphasis on the need for air-ground cooperation. The efficiency of the Marine Corps in this field has been particularly noticed, but the need for general improvement is still apparent.

e. Testing of new arms and equipment. Noteworthy examples have been the 3.5 bazooka and the Patton medium-gun tank. The latter has shown its superiority to the Soviet T-3h tank by an 18-1 margin of victory in dirapproved for Release 2004/07/25 CP FF DP79R00971A000300020002-0 orted

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as only 5 to the enemy's 90. The value of Korea as a proving ground has, however, been sharply limited by a policy of refraining from the use of new equipment unless there is real tactical need for its employment.

6. Capabilities.

The U. S. Army is not now in a position to assume commitments considerably greater than those it has already assumed.

The six army divisions now committed to action in Korea, together with the two former National Guard divisions on occupation duty in Japan, form one half of the Army's trained divisions. Of the remaining eight divisions three are already in Germany and two more are scheduled to join them before the end of November. This will leave as strategic reserve in the Zone of the Interior only three divisions other than training divisions, namely the 1st Armored, 11th Airborne, and 82d Airborne. None of these three is likely to be sent overseas without extreme reluctance until additional National Guard divisions have been Federalized, brought up to full-strength, and given considerable training - a process which would require a minimum of 6-9 months. Gen. Collins has stated that the calling up of two additional Guard divisions is under discussion, but no decision has been announced. Although no dates have been revealed. two to five active divisions are eventually to be formed out of existing training divisions. It is possible that a speed-up in formation of one or more of these divisions might permit release of a combat-ready division for oversea duty somewhat sooner than the calling of a Guard division, but this is uncertain.

In addition to the three Army divisions which, subject to these qualifications, are available within the Zone of the Interior for active duty, it is believed that the 2d Marine Div., now stationed at Camp Lejeune, North Approxed For Release 2004/0725 CLEE DP79R00971A000300020002-0

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The force of one Marine and six Army Divisions now engaged in Korea is considered to be the maximum which can be logistically supported in view of the terrain and rail and road conditions in Korea. This force has shown itself capable of highly successful defensive and limited offensive action against the present energy. From statements made at the MacArthur hearings, especially the tentative plans for evacuation at the time of the successful Chinese offensive of December, 1950, it appears highly probable that if the situation in Korea should again deteriorate severely, withdrawal from the peninsula is more likely than large reinforcement.

In Europe there has been a considerable strengthening of U. S. forces during recent months. This increase in strength is continuing, with the announced goal of 3h0,000 men in Europe by the end of 1952. This number will include the troops now in Europe, the 28th and h3d Divisions which have already been alerted for movement to Germany, and necessary corps, army, and other supporting troops. Although the end of 1952 is the projected date for fulfillment of this goal, almost all of the combat elements will be in Europe by 30 November, 1951; it seems probable that the remaining troops could be made available quickly, if the situation should make this necessary.

Other troops available from the Z.I. for European duty have been discussed above. If a decision should be made to withdraw from Korea, the bulk of the forces now engaged there could possibly be released for European duty. In view of the overwhelming U.S. naval superiority in the Far East, it is possible that a total force of four divisions might be considered adequate garrison for the Japanese Islands if hostilities in Europe should cause a decision to concentrate all available troops in the Force 2004/07/28: CIA-RDP79R00971A000300020002-0

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It may therefore be concluded that the maximum number of divisions which could be made quickly available for European duty, additional to those already scheduled, would be one Marine and three Army
Divisions from the Z.I., and possibly five divisions from the Far East.
This figure of nine divisions is a maximum, and it is highly unlikely
that a decision would be made to accept the strategic risk which would be
involved in such a concentration.

The present U. S. and Allied force in Western Germany includes

U. S. 3 divisions and the U. S. Constabulary

British & divisions

French 3 or 4 divisions

By the end of the year these will have been increased to include

U. S. 5 divisions and the U. S. Constabulary

British 4 divisions

French 10 divisions, (5 in combat readiness, 5 at

3 days notice)

Belgium 1 division

There is considerable doubt whether this French commitment will be fulfilled.

Expected by the end of this year would be in a very vulnerable position if subjected to a determined attack from the East. The present front, stretching from the Baltic to Jugoslavia, is 700 miles long. To defend this line there are now not more than 12 divisions, some of them partially trained and not at all fully equipped. They face the danger of airborns operations against the Rhine crossings in their rear. Air protection is inadequate since the ring of fighter air bases projected for capproved for Belease 2004/07/28: CLARDA79R00971A000300020092-0

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The difficulties of this position could be partially met by withdrawal to the Rhine and the Alps. Defense of the Scuthern sector would presumably devolve upon the Southern Command of SHAPE. The line of the Rhine would then extend some 350 miles from the Swiss border to the sea. If this shorter line could not be successfully defended, a possible withdrawal from Western Europe north of the Pyrenees appears to be contemplated. Two recent developments support this conclusion. One is the change in the line of communications of the European Command, which no longer originates in Bremen but instead passes from Bordeaux through Verdum and Metz. The other development is the agreement, details of which are incomplete or unannounced, between the U.S. and Spain. Unless a retreat into or beyond southern France is considered possible, the value of U.S. bases in Spain does not seem to justify the political risks involved.

Present capabilities in Europe seem to be indicated accurately by the statement of Lt. Gen. A. M. Gruenther, Chief of Staff, SHAPE, in June of this year, that while "significant" progress has been made, "we are still not in a position to defend Western Europe." (quoted in the N. Y. Times, June 29, 1951).

These estimates of the very limited immediate capabilities of the U. S. Army in terms of combat divisions seem in general to be supported by the situation in regard to weapons and equipment. Supplies of World War II materiel are being depleted both by the action in Korea and by contributions to U. S. Allies under MDAP. New equipment and weapons, production of which has been authorized by recent appropriations, will not be an important factor for nearly a year. It seems that the policy of maintaining the size of the Army unchanged through the fiscal year 1952 is

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This statement of present Army capabilities does not take into consideration the possible use and effectiveness of new and unconvertional weapons of atomic, biological, radiological, and chemical warfare, which are treated elsewhere in this report.

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B. ADMINISTRATIVE ORGANIZATION

and the

lo Constitution of the Army.

The U.S. Army includes the Regular Army, the National Guard of the United States, and the Organized Reserve Corps.

2. Command of the Army.

Command of the Army and all components thereof is exercised by the President through the Secretary of Defence and the Secretary of the Army, who directly represent him.

S. Department of the Army.

a. The Department of the Army is a military department within the Department of Defense. It was so established by the National Security Act of 1947, as amended by the National Security Act Amendments of 1949. The Army Organization Act of 1950 provided for the organization of the Army and the Department of the Army. In general, this Act followed the policy of resting broad organizational powers in the Secretary of the Army, subject to delegation by him, rather than specifying the duties of subordinate officers. A chart of the organization of the Department of the Army is attached as Appendix I.

b. The Secretary of the Army is the head of the Department of the Army. Subject to the direction, authority, and central of the President and the Secretary of Defence, the Secretary of the Army conducts all affairs of the Army Establishment. He is assisted by an Under Secretary, two Assistant Secretaries, a legal Department Counselor, and an Administrative Assistant.

c. The Chief of Staff of the Army is the principal military advisor of the Sacretary 04/1/28 CIA-RDP79R00971A000300020002-0

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the Secretary of the Army for the efficiency of the Army, its state of preparation for military operations, and plans therefor. He presides over the Army Staff, transmits to the Secretary of the Army plans and recommendations prepared by the Army Staff, advises him in regard thereto, and acts as the egent of the Secretary of the Army in carrying the same into effect. He is the representative of the Army anceg the Joint Chiefs of Staff. By virtue of his position he

do The Army Staff is the Staff of the Secretary of the Army at the seat of government. It includes the Chief of Staff and his immediate assistants, the General and Special Staffs, and the Administrative and Tachnical Staffs. The precise function of each of these are defined in the U.S Covernment Organization Manual 1951-52, pp. 130-135.

takes reak above all other officers of the Army.

Growth in the size and importance of the Army Staff has been a significant feature in the development of the Army structure since the beginning of World War II. On 28 February, 1951, military personnel on duty in the Department of the Army included 3410 officers and 474 enlisted men. The relative distribution of this personnel is indicated by the following table showing distribution immediately before the outbreek of hostilides in Karea. In each case it is probable that the present number is 50 to 100% larger.

Office of the Secretary of the Army	100
Office of the Chief of Staff	300
Divisions of the General Staff	800
Special Staff	300
Technical Staff	පගර
Administrativo Staff	

& Amy Field Forces

Approved for Release 2554/07/28 : CIA-REP79R0057 FA000300620002-05 to supervise the training of execution and units used by the

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Army in the field, and to supervise the following Army Field Force Reards:

a. Board No. 1, at Ft. Bragg, N.C., which is responsible for testing of Army eviation equipment, sirborns equipment, and field Artillery equipment.

b. Board No. 2, at Fort Know, Eye, which is responsible for automotive equipment and heavy fire-control equipment in connection with amoved vehicles.

- c. Board No. S. at Ft. Bragg, F.C., which is responsible for infantry equipment.
- d. Board No. 4, at Ft. Bliss, Tex., which is responsible for auti-aircraft artillery and guided missiles.
- e. The Arctic Test Evench of the four Army Field Force boards, which is responsible for all forms of equipment under Arctic conditions.

 The headquarters of the Army Field Forces is at Fig. Monroe, Ve.

5. Continental Commande

The commoding general of each of the Continental Armies and the Military District of Weshington commends all units, activities, and installations within his area, except those specifically commended by the head of an Administrative or Tochmical service or other agency of the Department of the Army. Fe is responsible for the operations, training, administration, services, and supply of all units, activities, and installations of his commend, and for certain activities at installations reporting to the Department of the Army.

The accompanying may of the United States, attached as Appendix II, indicates the Army Areas of the Continental Commands. The Army Areas, Headquarters, and territory included are as follows:

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Approved For Release 2004/0028 REIA-RDP79R00971A000300020002-0

First Army, Eq. Governor's Teliuid, N.Y.

Composicat

Maine Massachusetts

New Hempshire

How Jonesy

Rew Tork

Recto Island

3/

Vermont

Second Army, Hq. Ft. Coorgo G. Mondo, Md.

Dolowns

Kentucky

Maryland Obio

Pannsylvaria

Virginia

West Virginia

Third Army, HQ. Ft. McPherson, Ca.

Bendala

Florida Georgia

Mississippi

North Carolina

South Carolina

Tonneasee

Fourth Army, Hq. Ft. Sam Houston, Tex.

Arkangas

Louisiana

New Mexico

Oklahoma

Texas

Fifth Ameyo Ho. Ft. Shoridan, Ill.

Colorado

Illimie

Indiam

TOPZ

Kansse

Michigan

Minnesota

Mascuri

Rebraske

Rorth Dekota

South Dekots

Wisconsin

Wyzming

Sixth Army, Eq. Providio of San Francisco, Calif.

Arizona

California

Idaho

Montana

Movada

Oregon

Utsh

Washington

6. Overseas Commande.

a. Far East Command Hq. Tokyo, Japan. U.S. Army Forces, For East, are administratively integrated with the Far East Command, which consists of four administrative sub-commands: Eighth Axes (Korea), U.S. Army Forces in Japan, Rynkynes Command, and Marianas-Approved For Release 2004/07/28 : CIA-RDP79R00971A000300020002-0

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b. European Command, Hq. Heidelberg, Germany. U.S. Army Forces in Europe, including the Seventh Army, are under the administrative jurisdiction of the European Command and the operational control of Supreme Eq., Allied Powers in Europe. U.S. Forces in Austria is a sub-command of the European Command.

c. U.S. Army, Alaska, is under the jurisdiction of the Alaskan Command; the latter is under an Air Force officer. Hg. are at Ft. Richardson, Alaska.

d. U.S. Army, Caribbean, is under the Caribbean Command, which is under an Army officer. Hq. ere at Post of Quarry Heights, Canal Zone. U.S. Army Forces, Antilles, is a sub-command of the Caribbean Command.

e. U.S. Army Pacific is under jurisdiction of the Pacific
Command, which he under a naval officer. Eq. are at Ft. Shafters.
Cahu. T.H.

7. Amy Branches

There are twalve Besic_Branches and three Special Branches, the latter with separate promotion lists.

a. Basic Branches

Infantry Quertermester Corps
Armor Finance Corps
Artillery Ordinance Corps
Engineer Corps
Signal Corps
Adjutant General's Corps
Military Police Corps

b. Special Branches

Judge Advocate Coneral's Corps
Army Medical Service (including Medical Corps, Dontal Corps,
Veterinary Corps, Medical Service Corps, Army Murse Corps,
Woman's Medical Service Corps)
Cheplains

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B. Women's Arey Corps.

The WAC is a separate component of the Army. The number of weren who may serve at any one time as members of the Regular Army is fixed at two persent of the strength of the regular establishments

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C. TACTICAL ORGANIZATION

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1. Regimental Combat Team.

Although the Division is usually considered the smallest composite unit capable of operating independently, the Regimental Combat Team has recently received considerable emphasis as a unit of greater maneuverability than a division and capable of undertaking independent combat missions. A Regimental Combat Team appears to consist basically of an infantry regiment, an artillery batallion, and an engineer company, together with attached armor and service units. Present Army plans call for the formation of 18 such units. The 187th Airborne R.C.T. has been in action in Korea, though recently withdrawn to Japan. The 45th Infantry Division, now on occupation duty in Japan, is organized into three R.C.T.'s, rather than the normal organization.

2. Division.

There are three types of U.S. Army Divisions, Infantry, Armored, and Airborne. Tables of Organization of these three types of divisions are attached as Appendix III.

- travels and fights on foot, but there is a growing tendency to provide motorized transport directly to the combat area. Recent developments in provision of armored personnel carriers are directed to this end. The increasing use of VT fuzed ammunition, with its distructive effects on unarmored troop concentrations, has been a major incentive to this development.
- b. The Armored Division has 15,973 men foot, motorized, and mechanized elements.
 - c. The Airborne Division has 16,630 men, and is capable

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of being transported entirely by air and landed in the combat zone by parachute. Because of the present tendency toward air transportability of the Infantry Division, the distinction between Infantry and Airborne Divisions is tending to disappear. The First Infantry Division now in Germany, is capable of moving by air with all of its equipment except the 155 mm. howitzer.

d. The relative efficiency of Army and Marine Divisions has recently been the subject of public debate. The question of considerable expansion in the size of the Marine Corps, and its position in the Armed Forces, is at present uncertain and subject to Congressional decision. Attached as Appendix IV are tables showing the Table of Organization of a Marine Division, and a comparison of the weapons of Marine and Army Divisions.

3. Corps

The next higher headquarters above the division is the corps. It consists of a corps headquarters, certain corps troops, and such divisions as may be assigned to it.

a. The corps is primarily a tactical unit. The corps headquarters is designed for the purpose of coordinating and controlling the combat operations of two or more divisions by a single commander who is not burdened by supply and administrative responsibilities.

b. Unlike the division organization, the corps is not a fixed self-contained unit. It normally consists of two or three Infantry Divisions and one Armored Division, but it may be composed of any number of divisions required for the accomplishment of its mission. Its total strength, therefore will vary.

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- c. Examples of corps troops, available to the corps commander for attachment to his subordinate combat units are:
 - 1) Heavy Artillery
 - 2) Various types of Engineer units
 - 3) Armored Replacement Bns.
 - 4) Signal Bn.
 - 5) Quartermaster Truck Rgt. or Bn.
 - 6) Ordnance Bn.
 - 7) Military Police
 - 3) Medical Bn.

4. Field Army.

The Field Army is the next higher organization to the corps. It is composed of a headquarters, certain army troops, a variable number of corps, and a variable number of divisions. Like the division, it is self-contained, in that it has the means for independently carrying out tactical and administrative responsibilities. It normally consists of two or more corps plus a pool of reinforcing units termed army troops. It may also contain additional divisions not assigned to one of its corps.

5. Army Group.

An Army Group is the largest field organization handled by a single commander. An Army Group is formed when the forces within a theater of operations consist of several Field Armies. It may include from 400,000 to 1,500,000 troops. The formation of Army Groups is primarily for tactical purposes and facilitates the control of the various armies by the theater commander. Unlike the Corps and Field Army, the Army Group ordinarily does not have a reserve of reinforcing units.

6. Division Slice.

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contained in a division and required to support it in the field. It is properly restricted to troops in a theater of operations, either in the combat some or the zone of communications. In general, it is considered to include:

- a) The Divisions themselves
- b) Corps and Army support troops
- c) Corps and Army headquarters troops
- d) Logistical support troops within the theater.

According to a monograph published on the Division Slice, written by General Ogden and published in the Hearings of the House of Representatives Appropriations Committee on the Department of Defense appropriations for 1952 (Part 1, page 31) the typical planned division slice is 50,000 men. The following table, derived from this source, shows that this figure indicates a considerable relative decrease in the number of non-divisional troops included in the typical division slice since World War II.

	Division	Army Zone Slice	Theater Slice
World War II	13,500	27,000	41,000
Typical Field Army	18,000	36,000	50,000
Percent of Increase	33	33	22

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D. ORDER OF HATLE

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L. The Zone of the Interior

Inspection of the map makes it plain they, whatever considerations dietate the placing of troops in the United States, the idea of equal protection for all parts of the country is not one of them. At the outbreak of hostilities in July 1950, the following serviceable divisions were in this country:

- 2 Infantry, Fort Lewis, Wash.
- 3 Infantry, Bort Benning, Ga.
 - 1 Marino, Camp Pendleton, Calif.
 - 2 Armored, Fort Hood, Tex.
- 11 Airborno, Camp Compboll, Ky.
- 82 Airborns, Fort Bragge M.C.

This disposition of 2 on the Pacific Coast, 1 in Kentacky, 2 in the Southeast, and 1 in the deep South suggests only that transportation within the country was expected to be able to take care of any necessary movements, no particular movement being anticipated.

These were in various states of readiness, but the first three could be shipped to korea, the latest by November, 1950. This was by means of borrowing men and units. The 11 Airborne contributed the 187 RCT, and the 2 Division took the 65 RCT from Puerto Rico. Simultaneously the 2 Armored was reduced to organize the 1 Armored, also at Fort Hood. The build-up in Korea left only one ready division - the 62 Airborne - in the United States. The long transportation of the 5 Infantry Division was, of course, necessitated by the fact that there were no troops to be had nearer the scane of action.

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The 40 Infantry (N.G. Calif.) and 45 Infantry (N.G. Okla.) were salled up with the express purpose of sending them to Japan as replacement for troops withdrawn from there to Morea. Their training areas, Camp Cooks, Calif. and Camp Polk, La. respectively, were chosen for convenience in the crisis and not in accordance with any permanent principle.

When the subsequent expansion of the army began there was no attempt to fill the places left vacant. No new divisions were organized at Lewis, Cooke, Pendleton, or Polk. At Benning the 4 Infantry was made active, not to take the place of the 3 Infantry but presently to be transported to Germany. Only at Hood was there plan for what might be called replacement, the 1 Armored being made ready and the 2 Armored sent later to Germany.

The present placing of active divisions (in different degrees of activity) is as follows:

- 28 Infantry, Camp Atterbury, Ind.
- 45 Infantry, Camp Dix, N.J.
- 11 Airborne, Camp Campbell, Ky.
- 82 Airborne, Fort Brugg, N.C.
- 1 Armored, Fort Hood, Tex.

Of these the 28 Infantry and the 45 Infantry have been designated for movement to Europe in October and November, 1951.

It is evident that troop location did not and does not conform to any conception of a general garrison for the country. In this connection it may be noticed that plans for defense against air attack soom to be very little advanced as yet. The nature of those plans are indicated in the placing of AA headquarters at Air Force bases, e.g.:

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Hq. Eastern AA Command, Stewart AFB, N.Y.

Rg. First Army AA Command, Mitchell AFR, N.Y.

Hq. Fifth Army AA Command, Ent AFB, Colo.

Hoo Sixth Army AA Command, Hamilton AFE, Calif.

Either their security is very good, or these are commands without many guns. There are few signs of AA concentration around such cities and industrial areas as would rake likely targets for air attack. This may be because trained grows are not yet available or because defense is to be committed to Air Force interception instead of the AA. That there is some measure of truth in the former possibility is suggested by the concentration of AA units at such points as Edwards, Mass., and Stewert, Ga., which must be training centers, since they are not placed to defend anything in particular. A few movements toward centers of population may be the precursors of a general distribution of that kinds

51 AAA Brigade, Stewart, 2 Nov. 1950

Chicago, 4 Ang. 1951

60 AAA Group, Dovens, 30 Dec. 1950

Totten (N.Y.C.), 24 Mar. 1951

209 AAA Group, Stewart, 2 Nov. 1950

Indiantown Gap (Harrisburg), 7 July 1951

260 AAA Group, Edwards to Meade (Baltimore), Mar.-Apr. 1951

9 AAA Gun Bn., Bliss 10 Feb. 1951

Sen Francisco, Il Aug. 1951

36 AAA Gun Bhoa Bliss, JO Feb. 1951

Meade, IS May 1951

The present dispersion of ground troops is largely the result of circumstances. Installations already in being must be used where

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pecsible, and large camps have in the past been built in the South recause the reather allowed more days for training, and in the East to be accessible to the centers of population. These considerations will govern the training program. There are the following training divisions now in the Federal service:

- 5 Infantry, Indiantown Cap, Pa.
- 6 Infantry, Fort Ork, Calif.
- 8 Infantry, Fort Jackson, S.C.
- 9 Infantry, Fort Dix, N.J.
- 10 Infantry, Fort Riley, Kan.
- 31 Infantry, Fort Jackson, S.C.
- 47 Infantry, Comp Rucker, Ala.
- 3 Armored, Fort Knoz, Ky.
- 5 Armored, Camp Chaffee, Arka
- 6 Armored, Fort Leonard Wood, Md. (?)
- 7 Armored, Camp Roberts, Calif.
- 101 Airborne, Comp Breckinridge, Ky.

Of these 12, 6 are east of the Mississippi, 9 east of the mountains; only 2 are north of Baltimore.

While these training units are organized as combat divisions, essentially the same basic training is given at each, regardless of the designation "Infantry", "Armored", or "Airborne".

A large part of the armed forces in this country are organized not by divisions but by lesser units, and it is impossible to say what their combined strength is at present. Most of them are undoubtedly undergoing training, and some centers of specialized training are indicated by concentration of certain erms at the following points:

CONSECUTATION

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AAA, Cemp Edwards, Messo

Assa Fort Mosce, Md.

AAA, Fort Sterart, Ga.

AAA, Camp Custor, Mich.

AAA, Fort Lowis, Wash.

Artillery, Fort Bragg, N.C.

Artillery, Comp Polk, Lo.

Artillery, Comp McCoy, Wise

Artillery, Camp Carson, Colo.

Armor, Camp Polk, La.

Engineers, Comp Campbell, Ky.

Engineers, Nort Lewis, Rach.

Engineers, Camp Roberts, Calif.

Infantry (Ranger), Camp Cerson, Colo.

Reconnaiscance, Camp Pickett, Va.

Calculation of American potential must take into account the National Guard, since that is regarded as the first source of nor combat units. Originally, of course, the National Guard would have furnished garrison troops. There is now, bowever, no disposition to associate them with their home states once they have been called into the Federal service.

2. The Far Eastern Command

The main ground force of the Fer Bansern Commend consists of 8 Infantry Divisions (2 in Japan, 6 in Korea - the 1 Cavalry being organized as Infantry), 1 Marine Division (in Kerea) and 3 Regimental Combat Teams (2 in Japan, 1 on Okinawa). Since the units are reported to have been at full strength since May, 1951, this gives a force of about 186,500 men. The shooting strength can be reasonably calculated 88:

76,622 small arms offensive weapons

1,592 mortars

1,089 recoilless rifles

1,352 tanks

702 artillery pieces

111 flame throwers

256 M-16 SP AA Waapon

256 M-19 SP AA weapon

(The basis of this estimate is given on the table of Offensive Weapons appended.) To this must be added Corps and Army troops in unknown amount.

It is impossible to calculate what total this would produce, counting troops of all services, because 1) the mutual contributions of U.S. and ROK services is unknown, and 2) the extent to which civilian labor can replace military in Japan and Korea is equally unknown. Senator Douglas' figure of a total 75,000 necessary per division of 18,900 would give 659,000 army personnel (plus 70,500 Marines) which is clearly impossible if the whole army was 1,500,000 - 1,600,000 in June.

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given to the House Budget Committee, would amount to 439,000 without the Marines, leaving only 1,161,000 for the establishments in Europe, America, and the outlying remands. The estimates of 500,000 in the Far East (Harald-Tribune, 20, June) and 250,000 plus (Times, 9 July) seem to be no more than guesses.

The organization, of the ground forces of the Far Eastern Command is as follows:

.en. Matthew B. Ridgery, CG Lt. Gen. Doyle O. Hickey, C of S GHQ Tokyo

XVI Corps

GHQ Reserve Corps, redesignated XVI 13 May 1951 Maj. Gen. Roderick R. Allen, CO HQ Camp Sendai, Japan

Components:

40 Inf. Div. (OB of the several Divisions appended)

45 Inf. Dive

34 RCT

187 RCT

Ryukyus Command

HQ Okinawa

Components:

29 RCT

65 AAA Gun Bno

97 AAA Gun Bu.

32 AAA and AW Bm.

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Eighth Army

Lt. Gen. James A. Van Fleet, CG Lt. Gen. John B. Couttor, Deputy Commender HQ Possibly Pusan

I Corpa

Lt. Gen. Frank W. Milburn (relieved Aug. 1951; successor not announced)

Brig. Gen. Thomas L. Harold, Deputy

Brig. Gen. Rinsldo Ven Brunt, C of S

West Front Korea, no HQ known. APO 358 S.F.

Components:

- 1 ROK Div.
- 1 Cavalry Div.
- 3 Inf. Div. (until 17-18 May, 1951)

25 Inf. Div.

IX Corps

Maj. Gen. Win. M. Hoge, CG

Brig. Gen. Thomas J. Cross

Central Front Korea, no HQ known. APO 264 S.F.

Components:

24 Inf. Dive

1 Marine Div.

7 Inf. Div.

X Corps

Majo Geno Clovis E. Byers, CG

(Established in Korea 23 Sept 1950 with components: Approved For Release 2004/07/25 CPTPP79R00971A000300020002-0

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Eighth Army. (Cont.)

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X Corps. (Cont.)

7 Info Divo

24 Inf. Div.

25 Inf. Div.

1 Cav. Div.)

East Central Front Korea, no HQ known

Present Components:

3 Inf. Div. (since 17-18 May 1951)

2 Inf. Div.

To the right of X Corps are (or were in May)

3 ROK, 5 ROK

7 ROK and 9 ROK Divse

At the outbreak of hostilities in Korea each Infantry Regiment in Japan except one, was 1 battalion under strength; the 4 divisions, therefore lacked a total of 11 Infantry Battalions. They also lacked 11 FA Batteries. Eighth Army as a whole was 32,000 men short of T/O strength. In the first three months of hostilities, 100,000 troops and 2 million tons of equipment were sent to Korea; 9 bms. of infantry, armor and artillery, while individuals from every organization in the Army formed trained cadres for 6 additional bms. 2 Inf. Div. was brought up to strength by similar stripping of other units and sent to Korea. 3 Inf. Div. was not yet up to strength when it sailed; the 65 Inf. Reg. from Puerto Rico was its third regiment. 11 Airb. Div. was stripped to form a full strength Airb. RCT, the 187. When the troop build-up in Korea was complete, 82 Airb. Div. was the sole remaining combat-ready division in 2.1. Through March 1951 U.S. Approved For Release 2004/07/28: CART R00971A000300020002-0

Divisions in Korea were nearly 2,000 men under strength, the difference being made up by Korean units. The integration of Korean soldiers into American ranks began with the 1 Cavalry Division in the summer of 1950 and proved so successful that the practice was extended to all American units in Korea. It was expected that American divisions in Korea would be at full strength by May 1951.

Aside from U.S. and ROK troops in action in Korea there are the following allied units:

British 1st Commonwealth Div. (with Belgian and Inxemburger troops attached)

Turkish Brigade

21 Thailand Inf. Reg., attached to U.S. 8 Cav. Reg.

4 Greek Bn., attached to U.S. 7 Cav. Reg.

Belgian Bn., attached to U.S. 3 Inf. Div.

Dutch Bn., attached to U.S. 2 Inf. Div.

French Bn., attached to U.S. 2 Inf. Div.

Colombian Bn.

Ethiopian Bn.

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3. American Ground Forces in Europe

The ground forces of the European Command consist of the U.S. Constabulary, 2 Infantry Divisions, 1 Armored Division, and 3 Regimental Combat Teams, as well as various unattached, or unlocated units. Assuming these divisions to be at full strength, and omitting troops assigned to service units, the combat strength of our ground forces can be computed at approximately 86,000 men as of 1 August 1951. Shooting strength, calculated on the basis of the appended table, can reconably set at:

52,851 small arms offensive weapons

723 mortars

405 recoilless rifles

1,259 tenks

342 artillery places

224 M-16 SP AA weapons

224 M-19 SP AAA wenpons

Total ground strangth including service, Corps and Army troops is estimated to be approximately 150,000. The New York Times reported 100,000 in February 1951, and Time's estimate of 130,000 (25 July 1951), based upon 85,000 combat soldiers, appears to be not far wrong.

The organization of American ground forces in Europe is as follows: Supreme Headquarters Allied Powers in Europe (SHAPE)

Hq. Rosquencourt, France

CG: General of the Army Dwight D. Eisenhower

Daputy CG: Field Marshell Montgomery

C/S: Lt. Gen. Alfred M. Gruenther

Allied Forses, Central Europe

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American Ground Forces in Europe. (Cont.)

Deputy CO: Con. Augustin Guilleum

Allied Forces, Southern Muropo

Cormander: Admirel Robert B. Carney

Ground Commander: Com. Maurizio L. de Castiglione

C/S Maj. Gen. Jensa M. Gavin

United States Forces in Europe (EUCOM)

Hq.: Heidelberg, Germany

CG : Gen. Thomas T. Hendy

C/S Maj. Gon. Deniel Noce

Seventh Army

Hq. Stuttgart, Cermany

CG: Lt. Gen. Manton S. Eddy

W Corps

Hq.: Bed Nauhoim, Germany

CG: Maj. Gen. John E Dahlquist

U.S. Constabulary

1 Inf. Div.

4 Info Divo

2 Armo Dive

United States Forces in Austria (USFA)

Hg.: Salzburg, Austria

OG: Lt. Gen. S. LeRoy Irwin
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USYA Tastical Communication Gen. James C. Fry.

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American Ground Forces in Europe. (Cont.)

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Traests United States Troops (Trust)

Hq.: Tricate

CG : Maj. Gen. Edmund B. Sebrec

at the present time is not clear. Before the outbreak of war in Korea, EUCOM exercised authority over all American forces in Europe, the principal tactical units being the 1st Infantry Division and the U.S. Constabulary. When the Seventh Army was reactivated, in November 1950, it assumed tactical control; and EUCOM became primarily a logistical support command. In theory, the Seventh Army is already subordinate to General Juin, Allied Commander for Central Europe under SHAPE. SHAPE is to be operational headquarters for all allied forces in Europe, while EUCOM will handle administrative problems for American troops. Actually, however, EUCOM appears to be still under the direct control of the Department of the Army and performs most of the functions not already taken over by the Seventh Army.

Eventually, of course, American forces will be more closely integrated into the projected Allied armies under SHAPE. When the organization of SHAPE is completed, the Seventh Army will take its place beside other Allied units onder the central authority. But it is probable that EUCOM, or a similar command, will be retained as a direct channel of communication between Washington and American troops in Europe.

Since June, 1950, two divisions, the 4 Infantry Division and the 2 Almored Division, have been sent to Europe. Before the end of 1951 they will be joined by two more, the 28 Infantry Division and the 43 Infantry Division. With these will go VII Corps Headquarters now in Approved For Release 2004/07/25 CORPPP79R00971A000300020002-0

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American Ground Forces in Europe. (Cont.)

the Second Army, Z.I. Unlike most National Guard divisions of World War II the 28 and 43 retain their National Guard codres almost intact. In spits of sems shortage of equipment their condition is considered good, though far from perfect. This will provide a force equivalent to 6 divisions (4 infentry, 1 ambred, and the Constabulary) all, except the 28 and 45, under the recently established V Corps. On the basis of General Ogden's monograph on the so-called division slice presented to to the House Committee on Appropriations, which allows 50,000 theatre troops per division of 18,000 man, total American ground forces in Germany would then amount to roughly 300,000 men. This figure, when increased by the units assigned to Austria, Trieste, The United Kingdom and elsewhere, appears compatible with Secretary Marshall's estimate of 340,000 ground troops in Europe by the end of 1952, by which time all divisions and their supporting units should have arrived. General Colling? figure of 284,000 ground troops by 30 June 1952 indicates that these supporting units will be transferred to Europe more slowly than the divisions.

Recent developments have shown the general form to be anticipated for EUCOM. The port of entry as late as June 1951 was Bremerhaven; a line from Bordeaux through Verdum and Metz has now been designated as the communication zone. This would obviously be a great advantage if American forces were compelled to withdraw to the Rhine. Another arrangement looking in the same direction, and also a step in the general integration of the European Zoreas, is the establishment of an American supply base at Kaiserslautern, and a training area just to the north at Baumholder, both in the French Zone west of the Rhine.

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American Ground Forces in Europe. (Cont.)

The area from the Rhine to the present line is evidently being cleared so far as possible of all except combat troops. It is significant for the understanding of their proposed function that the 28 and 43 Divisions are to be given training against airborne attack from their rear. One other recent event shows the increased importance of positions in the South: the landing at Leghern of 1,200 troops, 100 of whom were to be kept to operate the base while the rest go to USFA. (Herald-Tribune 13 Aug. 1951) This may be a step in the utilization of Mediterranean ports, adequately protected by the fleet, as major bases for the forces in Austria.

Finally, total Allied strength rests not only upon the contributions of the American army but upon those of our allies as well. At present, British and French troops on occupation duty in Cormany provide the bulk of these forces. According to the New York Times (15 and 20 May, 29 July 1951) present plans call for 4 British divisions, 10 French (5 ready and 5 in reserve). 5 Italian, and various units from the smaller countries to be available by the end of 1951. According to the New York Times (19 Aug. 1951) the troops available to SHAPE by 31 Dec. 1951 will be 4 British divisions; 10 French (5 combat-ready, 5 at 3 days' notice); 5 Italian infantry divisions, 2 brigades of Alpine troops, and 1 amored brigade (but the training and equipment of these are inadequate); 1 Danish division (brigade according to the Harald-Tribune 26 July 1951; this, together with one Norwegian brigade, would be in Schleswig-Hollstein to guard the Kiel Canal): 1 Netherlands RCT (5.600)men); 5 Belgian divisions. The <u>Times</u> (25 July 1951) estimates that by the end of this year there will be 500,000 Allfed soldiers and airmen in Germany. It Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0 would be premature; however, to take these contributions for granted;

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Allied Ground Forces in Europe. (Cont.)



and Secretary Marshell's statement that the NATO powers will have 2,500,000 men in active service by the end of 1932 (New York Times, 23 July 1951) will require the meximum effort and efficiency of all parties concerned.

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4. Other Oversea Commands

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a. Iceland Defense Force

Advance detachment of 200 U.S. troops arrived in Iceland, 7 May 1951. This is a unified force, consisting of Army, Navy, and Air Force personnel. It is under the operational control of CIC, Atlantic Fleet. Activities center on two airports, Keflavik and Reykjavik. Listening posts and other strategic installations are located elsewhere. Radar and weather stations are to be established on a large scale.

b. Alaskan Command (U.S. Army, Alaska)

The principal Army installations in Aleska are those at Fort Richardson and at Ladd Air Force Base. Fort Richardson, 7 miles northeast of Anchorage, is the beadquarters and center of all Army activity in the area. In March 1950, total strength at Fort Richardson was 3,165 men, charged primarily with the defense of Elmendorf Air Force Base. In July 1951, the 196 RCT, a South Dakota National Guard unit in training at Camp Carson, Colorado, since August 1950, was ordered to Anchorage, Alaska. It was to proceed by sea to Haines, Alaska, and engage in maneuvers during the month of August before taking up permanent station at Anchorage.

Ladd Air Force Base, Tairbanks, Alaska, had a station complement of 396 men in March 1950. Its facilities are being expended, however, and elements of the 4 Inf. Regt. from Camp Carson have arrived. The station will eventually be capable of accompleting an entire regiment. The troops are intended for defense of the Air Base, the most northerly bomber and fighter base in Alaska. Arctic test fecilities are to be located bowlets. For Release 2004/07/28: CIA-RDP79R00971A000300020002-0

4. Other Overses Commends. (Cont.)

Another station worthy of note is Eielson AF Base, 25 miles southwest of Fairbanks. The largest bomber base in Alaska, it had a defending force of 166 men in July 1950. Plans apparently exist for the expansion of this force. Budget plans presented to the House Appropriations Committee in 1951 cell for construction of barracks for 400 men; but this was said to be for short of eventual needs and the ultimate planned strength of the base is classified information.

In July 1950, 884 men were stationed at Whittier, Alaska, the port of entry for troops and supplies for both Army and Air Force on the mainland. There is no indication that the strength of this post has been increased. Finally, Big Delta, Alaska, APO 735, 105 miles southerst of Fairbanks, should be noted as the home of the Army Arctic Training Center.

Strategic plans for Alaska are discussed in the New York Times of 19 August 1951. Helf a billion dellars are scheduled for the next 4 years, almost all sopropriated or authorized since July 1950. Personnel at air bases are now being increased, radar and AA installations built up along the sea coast, highways constructed to connect air fields with harbors. The garrison of Marks Field Air Base at Nome is being increased The defense line now runs from Fairbanks down the Alaska reilroad through Elmendorf Field, Ft. Richardson area to Kodiak - a 550 mile line of air bases and garrisons.

C. Caribbean Command (U.S. Army, Caribbean?)

The defense of the Caribbean area has been entrusted to a unified armed forces command consisting of U.S. Army Caribbean, the Caribbean Approved For Release 2004/07/28 SCIARPT 9R00971A000300020002-0

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4. Other Oversea Commands. (Cont.)

Air Camand and the Caribbean Sea Frontier. Units listed in Appendix V are the only ones, aside from Puerto Rican National Guard outfits, which could be located in this area.

d. Pacific Command (U.S. Army, Pacific)

Like the Caribbean, the Pacific Command has been largely by-passed by recent military developments. The increasing American commitments to the defense of the Far East have centered upon Korea, Japan, and Okinawa; and there is no evidence of any build-up of ground forces alsowhere in the Pacific erea.

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E. Manpower and Training

1. Army Strength

In June, 1950, the Secretary of Dafense reported 593,000 men on active duty in the Army. This force was organized as 10 divisions. additional regimental combat teams and supporting units. By June, 1951, more than 1,200,000 men had been called to service, leaving a net total of more than 6,550,000 for the Army. Present plans call for stabilization of Army manpower at between 1,500,000 and 1,600,000, according to About 630,000 will be eligible for release in fiscal General Collins. 1952 and present plans call for recruitment of emough new manpower to This will provide the equivalent of 24 divisions maintain the balance. - 18 organized as divisions and the rest as RCT's (18). Two more divisions added to the 16 currently on active duty will complete this total. In addition to the 18 divisions General Collins has predicted the federalization of two additional National Guard divisions; and Mrs. Rosenberg has stated that two divisions will be recruited by June 1952 from troops now assigned to non-combat duty. These additions would make a grand total of 29 divisions or their equivalent, including the U.S. Constabulary in Germany, at the end of the current fiscal year.

The distinction of U. S. ground forces at the present time is roughly as follows. The projected strength of the Army as of 30 June, 1951 was 1,552,000 men. Maximum strength of forces in the Zone of the Interior during fiscal 1951 was 981,988 men. Estimating 150,000 troops in Europe, approximately \$20,000 remain for the Far Eastern and other overseas commands. Of these, probably \$400,000 are actually in the Far East.

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The average strength of the Army for fiscal 1951 and 1952 had been presented to Congress as follows:

	1951	1952
Commissioned officers	89,172	120,600
Warrant officers	7,925	14,700
Nurses and WASC	5,296	მ "3co
Malisted personnel	98h,6h7	1,385,200
Cadets, USMA	2,334	2,400
Totals	1,089,374	1,531,200 ²

¹ July, 1950: 539,000; 30 June 1951: 1,531,000.

2. Sources of manpower

One of the basic problems with which the armed forces must deal is that of recruiting and maintaining, in the most efficient and equitable way possible, a force commensurate in size and degree of preparedness with their broadening responsibilities. Furthermore, plans are being made to keep available, or in ready reserve, trained troops to meet emergency requirements during an indefinite period of international It was to meet this need that the Department of Defens: proposed a Universal Military Training program, now to be elaborated by the National Security Training Commission in accordance with the terms of the Selective Military Training and Service Act of 1951.

The act provides for the establishment of a Universal Military Training program under which 18 year old men will be trained for 6 months in a National Security Training Corps. Upon completion of this period, the men will be held in a Reserve Corps for 72 years. Such a program, if encoastAbbrovedrier Release 2004/07/26: CHARDEF SEROOF 1400030902090209 the

 $^{^{2}}$ l July, 1951 and 30 June, 1952.

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Army in time of need while avoiding the necessity of maintaining an expensive military establishment during periods of relative peace.

Actual setting-up of UMT must wait upon approval by Congress of regulations to be drawn up by the National Security Training Commission and proclamation by the President that men under 19 years of age are no longer needed for the draft. It is not expected to go into effect in the near future.

For its immediate needs, the Army must rely upon existing means of procuring manpower. Enlistments, Selective Service, the National Guard and Reserve programs are the channels through which the strength of the Army is sustained.

a. Voluntary enlistment.

Voluntary enlistments between July 1950 and April 1951 were 198,000 men, in addition to whom the Army reported 61,000 immediate and 33,000 delayed re-enlistments for a total of 292,0000. Of the 630,000 men to be released from service during fiscal 1952, 200,000 are expected to re-enlist. The reliability of such expectations, however, together with that of predictions as to the number of first-time volunteers, depends almost entirely upon future events. While the Army must obviously attempt to calculate the number of voluntary enlistments it can count upon during the months ahead, such calculations must always be held subject to change without notice. International or military developments, or changes in regulations concerning the draft, may, as they have in the past, bring about striking upward or downward fluctuations in the rate of volunteering.

b. Selective Service.

The Selective Military Training and Service Act of 1951 now governs the recruitment of military personnel by means of the draft.

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all of the 19-25 age group has been exhausted by their local board.

Physical standards have been reduced to those acceptable in January 1945;

and the current mental standard is a score of 65 on the Army General

Classification Test. The new standards should make available approximately

500,000 men previously classified 4-F. Under earlier draft legislation,

816,124 men between the ages of 19 and 26 were reported eligible for induction
in october 1950, with 457,000 more becoming available annually. In addition
to the 500,000 4-Fa, the Act of 1951 makes available an undetermined number
of 18½ year olds, while changes in deferments on account of dependents are
expected to release 235,000 more for 1-A classification. It is apparent
that the new law has, thus, significantly increased the manpower pool
on which the axmed services can draw.

Eith the October 1951 quota, the number of men drafted since June, 1950 will reach 675,000, of whom 430,000 men, chiefly from the draft, will be necessary as replacements during the coming fiscal year.

Monthly draft calls have recently been increased. In July, 1951, only 15,000 men were drafted. The August quota of 22,000 has been raised to 35,000 with 7,000 going to the Marine Corps. The September quota is 34,000, of which 6,000 are for the Marines. In October, 41,000 are to be called, with 5,000 of that number going to the Marines. A rise in the monthly draft quota to 65,000 men has been predicted for the near future, and it is probable that monthly quotas will at least continue to run above 40,000. Here again, circumstances as they develop will unquestionably affect ultimate decisions.

c. National Guard.

The strength of the National Guard on 30 June 1951 was 235,000 men, organized in 3,588 units. Most of these are organized as infantry divisions or RCT 2 and their supporting units. The following are the Approved For Release 2004/07/28 CIA-RDP79R00971A000300020002-0 SECRET



organized Guard Divisions, those now active being marked *.

26 Mass.

27 NoY .

#28 Pa.

29 Md., Va., W. Va.

30 Ala., Miss.

32 Wis.

33 Ill.

34 Iowa, Nebr.

35 Kan., 110.

36 Tex.

37 Ohio

38 Ind.

39 La., Ark.

%40 Calif.

hl Oreg., Wash.

is Nor.

*L3 Conn., R.I., Vt.

灿 III。

*45 Okla.

46 Mich.

#47 Minn., N. Dak.

48 Fla., Ga.

49 Calif.

51 S.C., Fla.

49 Armored Tex.

50 Armored No.J.

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62.

In addition, the following non-divisional units are projected:

21 RCT's

103 Maine

107 N.Y.

Ill Pa.

114 N.J.

149 Ky.

150 W. Va.

157 Colo.

158 Ariz.

163 Mont.

166 Ohio

176 Va.

178 111.

182 Mass.

195 N.H.

196 S. Dak.

278 Tenn.

295 Puerto Rico

296 Puerto Rico

298 Hawaii

299 Hawaii

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is to be recruited in the following manner:

Returning guardsmen	28,583
Returning guardsmen with incompleted terms of state enlistment	15,000
New recruits for present 3,588 units	26,000
New recruits for 325 new units	10,000
Additions from pool of 150,000 returnees	և,806
Total	84,389

The training of National Guard units is treated in the discussion of the Army training program. During the summer of 1951 approximately 4,000 Guard units trained at summer camps across the country. At Pine Camp, New York, alone, 65,000 guardsmen and reservists received 2 weeks: training.

More than 100,000 National Guard troops have been called to active duty with the Army since the outbreak of war in Korea. 1,224 National Guard company-size units had been called by 30 November, 1950. These units, averaging 50% of T.O. strength, were filled by men drawn from the O.R.C. In addition to the 6 National Guard divisions already federalized, General Collins has predicted that two additional divisions may be called up during the current fiscal year. These divisions will probably be New York, Texas or Illinois guardsmen.

National Guard divisions, including those about to be sent overseas, have been used as replacement pools for units already in combat. The 28 Infantry Division (N.G.) has sent 6,000 trained draftees to other units. The 31 Infantry Division (N.G.) has lost 4,300 men as replacements to other units; while the 43 Infantry Division (N.G.) has trained 6,500

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Approved For Release 2004 The TA-RDP79R00971A000300020002-0 draftees and sent them elsewhere. Clearly, National Guard units which are used for such purposes should be considered a part of the basic training program.

d. Organized Reserve Corps.

New policies for reserve forces were amounced by the Secretary of Defense in April, 1951. They are stated in Department of Defense, Office of Public Information, release No. 516-51. Some of the policies announced have already gone into effect, but many await authorization by Congress before the contemplated revision of reserve policies can be completed. A fundamental change which the new program will effect is the division of the Reserve into Ready, Stand-by and Retired classes, based upon differing degrees of preparedness and availability. Recent changes in regulations concerning the Organized Reserve Corps have generally been steps in the direction of re-organization along the lines laid down by the basic policy statement.

On 1 March 1951, the O.R.C. reported 158,989 reservists in organized units and 313,931 individual reservists, including honorary and Inactive Reserve. The total for the Active Reserve was 293,320 men. The budget for fiscal 1952 provides for an end strength of 205,000 active members for the O.R.C. "Early ready" units are to be at 100% officer and 50% enlisted strength.

By J January 1951, 783 Reserve units had been called to active duty, with 5,477 officers and 20,222 enlisted men. Many reservists have been called up on an individual basis, to strengthen National Guard and other outfits. 33,410 officers and 94,843 enlisted men had entered active service on this basis by the same data. Additional units and individuals have been called up since January - the number of units was 852 by March - but the bulk of those likely to be drawn upon were probably called in the early

months of the war. Present plans call for the release of 100 000 enlisted resemptored for Repasse 200410 728 CLARD Training programs make possible their replacement by other persons all training programs make possible

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3. Army Training Program

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To an extraordinary degree the efficacy of any Army depends upon the character of its training program. This is particularly true of countries lacking a strong military tradition or enjoying relatively high standards of civilian life under urban conditions. Men from such backgrounds must be thoroughly trained to the rigors of life in the field and to the habits of discipline and cooperation so vital to successful military operations.

The process by which civilians are being made into soldiers deserves attention as a clue to the caliber of the fighting men the United States is capable of putting into the field.

Like many other aspects of the Army, its training program has been considerably revised since the outbreak of the Korean War. Increases in the draft and in the demand for combat soldiers have necessitated enlargment of training facilities. The training establishment in the Zone of the Interior has more than doubled since June, 1950. In July, 1951, the basic training period was increased from 14 to 16 weeks to provide more time for combat training. Qualitatively, too, basic training has been improved. Greater emphasis is being put on physical conditioning, infiltration courses, night problems and other exercises simulating combat conditions, notably the use of live ammunition in training exercises. In recent months veterans from Korea have been brought home to assist in the training of recruits. These men have been critical of the program for its failure adequately to prepare men for combat; and, with their aid, trainees are now receiving more realistic preparation. Commanders responsible for the training program have kept in close touch with developments in Korea and have constantly recommended changes to bring training more closely into line with the practical lessons learned there.

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At present there are 16 training and indoctrination centers handling recruits. Ten of these are operated by the training divisions listed refer in Appendix V, Transpirer Zone of the Interior. As noted there, these divisions, whether designated as Infantry, Armored or Airborne, all handle general indoctrination, basic infantry combat training, squad tactics and subjects common to all arms and services. The other basic training centers are located at various service schools, where the same program is carried on for the first six weeks. At the end of this period recruits selected for specialized training are released and sent to the special service schools or to specialist training units for the remainder of the training period. Those who are to remain in the Infantry, or who are candidates of officer of NCO training, continue the regular basic training course. The latter portion of this course stresses training under field conditions and in larger units.

Between 30,000 and 35,000 men are now being turned out monthly by the basic training program; and it is expected that the number will reach 50,000 per month before the end of the year. The chief difficulties encountered to date have been the lack of experienced cadres and of sufficient weapons, especially of new types, for the training centers. As production increases and more veteran combat soldiers are brought into the program these problems should disappear. There have been scattered complaints of facilities inadequate in other respects, such as housing, but these have been largely the result of rapid expansion and will probably be corrected in time.

Special service centers or schools exist for each branch of the service. At these centers advanced training in the weapons, techniques and duties of the branch is given. The following are the stations and branches of the special service schools:

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Ft. Benning, Ga.

Infantry

Ft. Knox, Ky.

Armor

Ft. Sill, Okla.

Artillery & Helicopter

Ft. Bliss, Texas

AAA & Guided Missile

Ft. Belvoir, Va.

Engineer

Aberdeen Proving Ground, Md.

Ordnance

Ft. Lee, Va.

QM. AG

Ft. Eustis, Va.

Transportation

Ft. Monmouth, N.J.

Signal

Ft. McClellan, Ala.

Chemical (effective 15 October 1951)

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Edgewood Arsenal, Ind.

Chemical

Camp Gordon, Ga.

Signal & MP

Ft. Sam Houston, Texas

Medical

Ft. Lewis, Washington

Clerk-Typist

Ft. Benjamin Harrison, Ind.

Finance

Officer candidate schools are now in operation at the Infantry
School, Ft. Benning; the Artillery School, Ft. Sill, and the Army General
School, Ft. Riley. Additional officer candidate schools will be opened at
the Signal, Engineer and Armored Schools, 1 September 1951. A five-month course
is given officer candidates, who will now number approximately 8,000 a year.

In addition to the branch service schools the Army operates a number of specialist schools and colleges to train officers and some enlisted men in complementary techniques. These specialist schools are the following:

*Armed Forces Information School, Ft. Slocum, N.Y.

Army Language School, Presidio of Monterey, Calif.

Army Security Agency School, Carlisle Barracks, Pa.

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^{*} In cooperation with Navy and Air Force.

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CIC School, Camp Holabird, Md.

Signal Photo School,

Special Service School, Ft. Monmouth, N.J.

*Strategic Intelligence School, Washington, D.C.

Quartermaster Subsistance School, Chicago, Ill., QM Depot

Army Medical Department Research & Graduate School,

Mushington, D. C.

Psychological Warfare School, Ft. Riley, Kansas

Joint service schools, training senior officers in joint and combined operations, strategic planning and logistic-economic factors affecting national policy are:

National War College, Carlisle Barracks, Pa.
Armed Forces Staff College, Norfolk, Va.

Industrial College of the Armed Forces, Washington, D.C. The Command and General Staff College, Ft. Leavenworth, Kansas, trains Army officers in tactical and staff operations at a somewhat lower level.

This training provided by the schools listed is primarily individual in nature, concerned with acquainting the individual soldier with the knowledge and techniques necessary for the best performance of the functions assigned him. At least equally important is group or unit training in tactical operations at all levels. Only through such training can the officers find the opportunity to put their knowledge of tactics and planning to the test of practice, and both officers and enlisted men form the habit of working together as a unit in cooperation with other units. Likewise, the lessons learned in the specialist branch schools are here put to use in a more realistic way. Unit training, then, supplies a test of individual capacities at the same time that it prepares

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the unit for combat operations. In every sense, operations of this type are the keystone of the entire training system.

Unit training may take several forms. In some instances, divisions or other units set up special schools to train all, or a part of, their men in some particular technique. The 1 Arm. Division, Ft. Hood, has established both a Chemical Defense School and a Ranger Training Program for its men.

Units may be assigned to a particular locality to take advantage of its geographical or climatic peculiarities for training purposes. Examples are Camp Carson, Colo., where units are trained in mountain and cold weather warfare, or the Army Arctic Training Center, Big Delta, Alaska. Camp Irwin, Calif. has recently been reactivated as the Army Armored Combat Training Center and units of the 43 Division, shortly to embark for Europe, have been sent there for tactical training in the desert. It is, perhaps questionable whether the desert is the ideal place to train troops few of whom are likely to see combat under desert conditions; but it may be the only practical place from the point of view of availability.

At a higher level of training joint maneuvers, such as "Operation Southern Pine" currently in progress in North Carolina in which elements of the 82 Airborne, the 11 Airborne and the 28 and 43 Infantry Division are participating, provide opportunity for experience in cooperation for large-scale operations and for testing the validity of previous training. Such maneuvers, furthermore, approach as closely as possible to operations under actual combat conditions. Their value lies in the accuracy with which they reveal flaws in training which need to be eliminated before units are committed to the line. For instance, early stages of the Southern Pine operation showed a serious breakdown in air-ground co-ordination through shortages and failures in radio equipment. Five field exercises of this kind are planned as the culmination

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of training for major units before July 1952.

Even after units are ready and have been shipped overseas, training programs are continued to keep them ready for action. In Japan, the 40 and the 45 Infantry Divisions, whose departure from the ZI was rushed, are continuing their training at Camp Sendai. In Germany, a German army training area at Grafenwochr has, until recently, been used by American units of regimental size or smaller. A new area is to be used in the future. This is presumably at Baumholder, west of the Rhine, where elements of the 4 Inf. and 2 Arm. Divisions are now in training. The 1 Inf. Division, in Germany since 1945 on occupation duty has been trained in airborne operations and is now capable of packing and loading all its equipment except the 155 mm. howitzers. This training may well have been carried out with any eye to rapid evacuation in the days when the division was almost alone in Germany. Indication of the nature of future training overseas is given in the report that the 28 and the 43 Divisions, after their arrival in Germany this winter, will undergo special training in dealing with airborne attacks in their rear. In addition to such operations, less spectacular forms of training are constantly in progress at the unit level.

Also in Europe, the Army operates a group of schools and training centers whose object is to maintain a high level of competence and to provide opportunities for advancement for able men. These are:

Ansbach, EUCOM Signal School

Bamberg, EUCOM Ordnance School

Eschwege, Ordnance School

Garmisch, Intelligence and M^o School, Engineer School

Hammelburg, Army Training Grounds

Kitzingen, Kitzingen Training Center

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Mannheim, EUCOM Transportation School

Munich, Constabulary NCO Academy

Oberanmergau, European Command Intelligence School

Vilseck, Tank Training Center.

Foreign soldiers have participated in the training offered at these centers, but there has been no participation to date of allied and U.S. units in combined maneuvers. Combined maneuvers of British, French and U.S. troops are scheduled for 14-23 September 1951.

A discussion of the Army's Information and Education program is not considered to fall within the limits of this report. The National Guard, R.O.T.C. and O.R.C. programs, since they are expected to account for over 350,000 men in 1951, are worthy of notice. The National Guard program is based on a weekly drill supplemented by occasional week-end training periods and by an annual two-week field training period. Since these units are at far from full strength the value of their training is questionable, or at least variable. Of the four National Guard divisions called to Federal service since June 1950, none is yet considered ready for combat duty; and all have undergone extensive training periods in spite of the training previously carried on. On the other hand, the 278 Infantry Regt, Tennesse National Guard is considered a crack outfit. After training at Ft. Devens and Fine Camp, one of its companies was assigned to Camp Buckner, West Point, in June, 1951, for two months training with the cadets of the United States Military Academy.

The Organized Reserve Corps sustains a somewhat similar training program, based on a combination of weekly drills and an annual field training period. Evaluation of the program is impossible since there have been no reports on Reserve units in action and since the majority of Reservists have been called as individuals and assigned to Regular Army or National Guard units.

It would appear, however, for various reasons including the lack of sufficient Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0

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funds, that the Reserve program to date has only begun to develop its full potentialities. (For further discussion of the National Guard and O.R.C. see section on Manpower.) The R.O.T.C., which now supplies more than 60% of the newly-commissioned officers of the Regular Army, has become a crucial factor in Army plans and training. After four years of military training in college and one summer of field training, the men from this program are absorbed into the Regular Army where they are providing an increasing proportion of the necessary leadership.

Finally, it may be observed that with training, as with every other aspect of military preparedness, "the battle is the pay-off." The effectiveness of Army training receives its ultimate test in combat, while the lessons learned there must be incorporated into any realistic training program. The battle-field is, consequently, the most important training area of all. In this respect, the Korean War has exerted an undoubtedly beneficial influence. It has established practical standards against which the whole training system can be measured. And it is now beginning to supply combat-tested cadres, personally familiar with the latest developments in warfare, to bridge one of the most important gaps between the training centers and the front lines.

A late addition to information concerning training:

- 1. Training manoeuvers scheduled for the coming year and referred to above have been identified as:
 - a. Operation Sand Hill, involving 2 Infantry and 1 Airborne divisions approximately 110,000 men.
 - b. Operation Snow Fall, scheduled for January-February, 1952, involving 1 Airborne division, 1 RCT and 1 Armored Cavalry regiment (30,000 troops) in winter operations.
 - c. Operation Long Horn, with 1 Armored division, 1 Infantry division and 1 RCT at Ft. Hood, Texas, stressing air-ground training for 80,000 troops.

Aparoved For Balence 2094/07/28 FURT 7980973 A 00030002000270ch are still to be made.

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F. RECENT DEVELOPMENTS IN ARMY VEAPONS AND EQUIPMENT.

Weapons and equipment common to all services are treated in Section V of this report. The developments with which this section is concerned are primarily those affecting the offensive weapons of the Infantry, Artillery and Armored branches. Modernization of weapons and equipment in these categories was already under way before the beginning of the Korean war. New tanks were being developed and tested, while many of the basic infantry weapons were undergoing striking changes.

Events in Korea have provided an enormous incentive for the perfection and production of experimental models. At the same time, the Army has been forced to draw heavily upon its slim stock of modernized equipment. It was front page news when a new and improved bazooka was rushed to the front in the early months of the Korean war. Units stationed in the Zone of the Interior were stripped of their equipment to supply the combat forces. To date, only one battalion of T-46 Patton tanks, already on the way to obsclescence, has been reported in action in Korea.

U. S. forces in Europe have no tanks of the latest models; and the 28 and 43 Infantry divisions, soon to sail for Europe, lack their full To and E allotments of even basic infantry equipment. Tank production is currently running 20% behind schedule.

Despite these difficulties, progress is being made; and the following pages and tables will show the extent to which new weapons and equipment are becoming available. In general, two fundamental trends are discernible in recent developments in this field. In the first place, increased mobility for infantry and armor has been considered of great importance. The lightening of infantry weapons, the use of armored personnel carriers, the improved engines in the new tanks, air training for infantry divi-

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all conform to this trend.

The second trend is the effort to increase the fire power of combat troops. For the Infantry, this takes the form of increased rates of fire for most basic infantry weapons and larger caliber weapons, i.e., .60 cal. machine gun and 105 mm. recoil-less rifle. In artillery and tank armament, the trend takes the form of higher mazzle velocities for the guns.

Specific information concerning improvements in certain weapons and equipment follows:

1. Small Arms and Infantry Equipment

The two main trends in connection with infantry are:

- a) to increase the mobility of the individual soldier
- b) to increase the fire-power of the individual soldier

a. As a means of increasing the mobility of the individual soldier, including the economy of transporting him by air, it is hoped to reduce the weight of his equipment and arms by as much as 65%. Items in this program are:

New helmets in which steel is replaced by an aluminum shell with nylon-plastic lining, which weighs 8% less and gives 15% more protection.

New entrenching tools which reduce the solider's load by 3 lbs. 14 oz.

New 3.5" bazooka, lighter than the old 2.36". Lighter rifle, pistol, machine gun and ammunition.

b. It has been estimated that sometimes 75% of available rifle firepower is not used by riflemen in combat. This must be overcome chiefly by
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training, but the introduction of new weapons has so far affected the situation that while the division has increased since World War II from 13,500 to 18,900, its fire-power has increased 50%.

Setting aside weapons well-established and well-publicized by the end of world War II, information on which is available in the Army Almanac and in Barnes' Weapons of World War II, the following are worthy of comment:

- M2, .30 cal. Carbine. Selective automatic version of the semi-automatic carbine; 30 round magazine; cyclic rate of fire 750 rounds per minute.
- T20? (or G25?), .30 cal. Rifle. Fully automatic; 2½ lbs. lighter than the Garand; 20 round clip; 750 rounds per minute. Expected to replace both rifle, ML and carbine and perhaps the light machine gun.
- M18, 57 mm. Recolless Rifle; weight 40.25 lbs., maximum range with heavy anti-tank ammunition, 4400 yars; muzzle velocity, 1200 feet per second; elevation 65°, -27°.
- M20, 75 mm. Recoilless Rifle; weight 103 lbs.; maximum range with high-explosive anti-tank ammunition, 7000 yards; muzzle velocity 1000 feet per second; elevation *65°, -27°.
- 105 mm. Recoilless Rifle; weight 750 lbs.; length 13 feet; range, 5 miles; rate of fire 10 rounds per minute. Jeep-mounted. Primarily an anti-tank weapon, which can K.O. any known foreign tank.
- .60 cal. Machine Gun. Fires faster and hits harder than the .50 cal. Which it is expected to replace; it has higher velocity and flatter trajectory. Furthermore, the barrel can be

unscrewed without tools and another substituted which fires Approved For Release 2004/07/20 TOP79R00971A000300020002-0

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20 mm. shells. It can be set up in position and fired by remote control, having been loaded with chough rounds to operate all night under normal conditions.

- Anti-tank gramade now being purchased from Belgium. Fired from M1 rifle; range about 100 yards; shaped charge 12 lbs.; pierces 200 mm. of tough armor. The granade is peculiarly ridged and not readily deflected from the most sharply angled armor plate.
- The army has ordered 6,918 sniperscopes, infrared telescopes mounted on M2 Carbine and powered by springwound 10 lb. generator. The operator wears special goggles which allow him to see the infrared ray in the dark.

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2. Morters

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The effort to lighten the soldier's load has led to experiments with a titanium baseplate for the 60 mm. and 81 mm. mortars. See the report on chemicals for further information.

A second important development affecting mortars is the incorporation of the 4.2" mortar into the infantry regiment. Formerly, the 4.2" was operated exclusively by personnel of the Chemical Warfare Service, working in close cooperation with the infantry. Since 1945, a Heavy Mortar Company has been assigned to each infantry regiment, replacing the anti-tank companies of World War II.

Monster mortars include the 250 mm. mortar, built for use against the Siegfried line, which was never actually employed in combat, and the 914 mm. mortar (Little David) which did see action in World War II. While it is rumored that the latter may be capable of firing atomic sholls, it seems more probable that the development of guided missiles and atomic artillery will make the large mortars obsolete. A reported new locator which finds and directs fire on mortar emplacements, if proved practicable, should contribute to this result.

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3, Artillery

The increases in range and in muzzle velocity which are the goal of most efforts to improve artillery weepons, require similar increases in the size and weight of the guns. This situation presents a challenge for the development and application of new materials and techniques if mobility, one of the vital aspects of modern artillery, is not to be seriously reduced.

Almost all of the basic artillery weapons now in use are World War II models. Modifications are dependent primarily upon ballistic and metal-lurgical experimentation to develop light-weight, erosion-resistant alloys suitable for high velocity, rapid fire. Experiments in new types of shells and barrels were well under way in 1945; but little of the knowledge gained has as yet appeared in actual firing pieces. It may be that, in the long run, the guided missiles program will develop a more effective answer to the problem of high-velocity, longer-range bembardment.

A few new artillery pieces, or modifications of old ones have already appeared, in addition to the 57 mm. and 75 mm. recoilless rifles discussed in the section on small arms. In general, the new developments reflect the emphasis on longer range, higher muzzle velocity and greater mobility.

The Anti-tank Gun M-27, is a 57 mm. (?), single-shot, hand-loaded weapon, capable of firing 10 rounds a minute to a maximum range of 5 miles. Another new anti-tank weapon is the 105 mm. recoilless rifle, listed under small arms. An 8-inch gun weighing 52,620 pounds is now in use, whereas the earlier model weighed 69,300 pounds.

During World War II the Army resorted to the use of guns mounted mounted upon tracked vehicles to provide a highly mobile, solf-propelled artillery force. A new 155 mm. Howitzer Mortar Carriage, M-41, has since been added to this group.

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4. TANKS AND ARMORED CARS

At the end of World War II the United States had on hand 28,776 tanks of all types. 17,901 of these remained on 1 July 1950, of which 6,600 were suitable for combat use. The tanks which first saw action in Korea were almost entirely World War II models, since the Army's new tank development program was not yet fully under way. Since the outbreak of war the funds and the stimulus necessary to bring the program into full operation have been \sup_{x} plied. The annual appropriation for tanks and other combat vehicles rose from \$33,360,949 in fiscal 1950 to \$2,322,954,552 in fiscal 1951. The estimated budget for fiscal 1951 allots \$4,201,456,000 for this item. Despite the increase in appropriations and the fact that the Detroit Arsenal was said to have the capacity to turn out as many as 5000 tanks in the first 12 to 18 months of production, the new tanks are coming off the lines more slowly than was expected. Less than 600 tanks were produced in 1950. In December it was announced that the Army had been unable to meet its minimum requirements in modernized equipment. As recently as July, 1951, tank production was officially reported 20% to 25% behind schedule. Unofficially, the major bottlenecks were identified . as the casting of armored hulls and fabricating of the electric wiring systems.

Nevertheless, the past year has seen notable progress from the stage of planning to that of actual production. Production lines are being set up at four new plants and tanks are already being turned out by at least two of them, the Cleveland Arsenal, operated by Cadillac, and the American Locomotive Co. We are said to be preparing capacity to produce 35,000 tanks a year, although nothing like that amount is being ordered at present.

A table of detailed information concerning recent tank and armored car models appears in the Appendix VI.

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ment of tanks and other armored vehicles has been the evolution of the concept of the tank-automotive "family." Basic to the concept is the application of the principle of interchangeability of parts between the various types of combat vehicles. Transmissions, cross-drives, wheel assemblies and even engines are now being made for use in armored cars and light, medium and heavy tanks. The advantages of such a program are obvious. Speed and economy of manufacture, ease of repair and availability of spare parts are among the more important. Other new developments of a more specific nature are summarized in the following paragraphs.

I. Tanks.

Two new light tanks, the T-57 and the T-41, have been produced in recent years to supplement the standard M-24. The M-24 is widely used and is still in production in small numbers. The first production model T-41s appeared in March, 1951, and full scale production is now under way. Over 1,000 of this type have already been ordered. No information concerning production of T-57s has been obtained.

Several important developments have taken place in medium tanks. The World War II Sherman tank, WAJE8, has seen duty in Korea but it is no longer in production. The Pershing, M-26, is obsolete. M-26s are being converted into M-46 Pattons, of which only one battalion has thus far been reported in action in Korea. Conversion includes replacement of the old engine by a more powerful one (see section III, Engines) and the installation of a cross-drive, torque converter transmission and "wobble-stick" steering device which permit the tank to turn completely around without moving forward or backward. The M-46 is also capable of travelling through water to the depth of six feet, through

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take and exhaust stacks and sealing compounds. The capabilities of the Patton are indicated by the report that, in direct tank vs. tank action in Korea,

Pattons have scored a knock-out margin of 18-1 over Russian T-34s.

Yet even the M-46 is little more than an interim model. The M-47, Patton II, is probably superseding it on the production line. The Patton II mounts an improved gun; and the hull has been remodelled to enlarge the interior and to reduce the likelihood of point-blank hits by increasing the angle at which a shell is likely to strike. The 1951 appropriation is sufficient to pay for about 5000 M-47s.

About another medium tank designation, T-42, less is known. Probably the number was applied to pilot models of the M-47, although there is some indication that it may be an entirely different tank. The best evidence suggests that the T-42 and the M-47 are one and the same; but the question is in need of further clarification.

In the field of heavy tanks new models have appeared, although the Army is reluctant to commit itself heavily. Several considerations are responsible for this position. Cost is, of course, an important factor, since each heavy probably costs about \$300,000 - a large amount to venture against destruction by a single well-placed shot. In addition, the need for such giants is thought to be relatively small. Few targets are worthy of such heavy armor. A small number of T-45s have been ordered; but few are likely to be secured unless experience proves that the new medium types are not capable of doing everything expected of the neavies. A second heavy model is the T-50, which mounts a 155 mm. gum.

II. Armored Cars.

Interest in armored cars as personnel carriers has been heightened by Approved For Release 2004/07/25 COMPOPTION PROPERTY APPROVED TO THE PROPERTY

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the development of the VT fuze. Against an enemy using VT-fuzed shells, infantry riding on tanks or deploying on foot is at a great disadvantage. Armored personnel carriers make it possible to transport troops close to the front lines without risk from this type of ammunition. They also afford protection against small arms, a fact which makes them of particular value in a war of rapid movement or for operations in areas subjected to guerrilla activity. The Armored Personnel Carrier, T-18E2, capable of carrying a squad of 12 men, is the latest vehicle of this kind. The tracked carrier, Armored Utility Vehicle, M-39, although it is still organic to armored units, has no overhead protection. It may probably be considered obsolescent.

III. Engines.

A new 12-cylinder, V-type engine, using 80-octane gasoline, rated at 810 horsepower and 1040 horsepower with the use of a supercharger is being produced by Continental Motors Corp. In line with the trend toward interchangeability this engine is used in recent model tanks, T-41, M-46, T-30 and probably T-42 and T-43.

IV. Armament.

Increasing use of high-velocity guns is apparent in the field of tank armament. It has been estimated that new tank guns have a 30% higher velocity than earlier models. M-46s, M-47s, T-41s and very likely, T-42s and T-43s, mount super-high-velocity meapons.

V. Note on Sources.

The Hearings of Congressional Committees on Appropriations have been the outstanding single source of information concerning tank production and development. Since the information they contain is of an official nature, they have been used also wherever possible as a check against data collected

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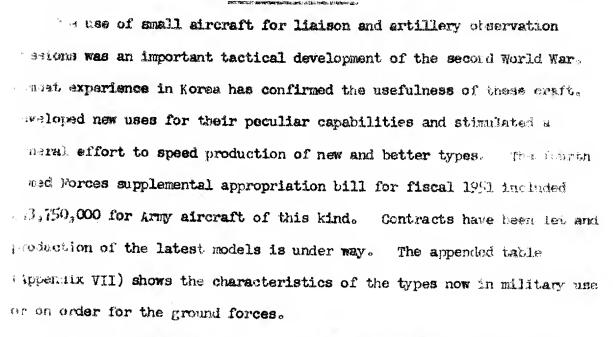


elsewhere. Statistics of appropriations for tanks and other combat vehicles and of unit costs of some items have been assembled from the hearings. A complete cost and production analysis of the whole tank program is not possible on the basis of the data so far collected. Such a project might well be given a high priority if the present study were to be continued. An important source for such an analysis, and one not available for this report, would probably be the various reports, magazines or newsbulletins published by the manufacturers associated with the tank program. Using information collected there, together with material presented at future Congressional hearings, it might be possible eventually to construct a more complete picture of the tank program than can be presented here.

Scattered news reports have supplied occasional information concerning tanks; but, aside from the Hearings referred to above, the service magazines Ordnance and Armor have made the most important contributions to our knowledge of the tank program.

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Thaison aircraft are divided into two basic categories: standard, fixed-wing types and rotary-winged, or helicopters. Increasing use of the latter has been highlighted by events in Korea; and it seems likely that rotary-winged craft will ultimately replace most, if not all, of the fixed-wing planes. Helicopters possess advantages of ability to hover to proceed at lower speeds, to rise and descend vertically, which make them particularly adapted to difficult terrain.

Helicopters and fixed-wing limison planes are now assigned to every combat division. At least twenty helicopters are used by Division No. and Division Artillery. In Korea, helicopters have dramatically proved their usefulness for evacuation of the wounded. In addition to limison and observation for the artillery, many new uses have been developed for the helicopters by Army and Marine commanders. Recommalisance and supply problems have been greatly facilitated by their use. They have teen used in establishing and maintaining advance OP's and patrols and for laying telephone wire. They are frequently discussed as potential troop carriers, and large models with detachable pods are being developed to

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perform this mission.

In Korea, helicopters have been stationed from one-half to five miles behind the front lines, and their bases are moved closely behind the front. This, and the fact that they are in constant use, has created difficult problems of maintenance and repair. However, increasing production both of the craft themselves and of spare parts should make possible the solution of many present difficulties. The automatic pilots being developed by Sperry, Goodyear and other companies will reduce the need for pilots, allow the pilot more time in flight for other activities and make possible takeoffs in dark or bad weather.

an Army Helicopter Aviation Tactics School has been established at Fort Sill in connection with the Artillery School. Helicopters have been assigned to units in the Zone of the Interior, notably the First Army Aviation Squadron at Fort Monmouth; but all suitable craft have been sent to Korea for combat service.

Note on American Helicopter

This magazine was the source of virtually all information concerning the production and use of helicopters. Its yearly December issue regularly prints pictures and specifications of the outstanding types, both for military and for civilian use.

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G. COMMENTS ON PRINCIPAL SOURCES



1. The Army Almenac

A point of departure is furnished by The Army Almanac, Government

Frinting Office, 1950. Since most of the information contained is

current as of October 1948, it must obviously be used with caution,

but such features as its Tables of Organization and Equipment (T/O & E)

furnish a basis which may then be revised by new information from

whatever source. A large part of the volume is taken up with historical
and other extraneous material; the following is a list of the passages

useful for this investigation:

- pp. 16- 30 The National Military Establishment
- pp. 268 f. Table 40. Infantry Division Organic Composition
- p. 275 First Cavalry Division authorized Strength, April, 1948
- P. 277 Armored Division T/O & E 17N, 8 Oct., 1948
- p. 279 Airborne Division T/O & E 71, 16 Dec., 1944
- p. 305 Oversea Commands (map p. 307)
- p. 313 Table 42. National Guard Troop Basis as of 1 Sept., 1948
- p. 314 Table 43. Allocation by States as of 1 Sept., 1948
- pp. 335-400 Army Educational System (locations and functions of the various schools, passim, with historical material)
- pp. 401-408 Lists of Posts, Camps and Stations in the U.S.
- pp. 517 f. Table of elements of Infantry Divisions in World War II
- p. 573 Table of Armored Divisions in World War II
- p. 585 Table of Airborne Divisions in World War II

There are also charts which may prove convenient:

p. 6 Schematic Functional Relationship of Elements in National Security

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1. The Army Almanae. (Cont.)

Organization of the Department of the Army (1 April, 1948) The chart on po 8 has one detail highly suggestive for participants in this enterprise. The Central Intelligence Agency is found on the extreme left, and from it to the National Security Council is a firm black line labelled "Intelligence". From the Agency to the Chiefs of Staff, on the other hand, runs only a dotted line labelled nothing at all. while there is no suggestion of contribution from the Joint Chiefs of Staff to the Agency. If the description of the Agency on p. 7 is read with this in mind it will give grounds for doubt as to whether the attempt to coordinate and disseminate intelligence has been wholly successful. If it does not succeed, the extravagance of duplication and even competition of various agencies of intelligence will continue to add its share to the confusion of national defense.

2. Army Orders

An excellent source for the location of units is the Army Orders. published weekly by the Army Navy Air Force Journal and the Army Navy Air Force Register. When an assignment is to a division or higher command the number and location of the unit is always given. The location (or APO) of lower units is given and the assignment to a division is specified often enough so that when such notices are accumulated an impressive proportion of the composition of divisions is fixed and a large number of unattached units located. Similarly the association of Army Post Offices, sometimes with units and sometimes with stations, added to the association of units with stations allows a

number of important APO's abroad to be pinned down (a list of APO's Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0 published in The Air Officer's fully, Third Edition, The Military Service CONFIDENTA

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2. Army Orders. (Cont.)

Publishing Co., 1950, pp. 434-438, is a useful beginning, but can be both expanded and revised from Army Orders). Given the composition of a normal division from the T/O & E, regiments and bettalions may often be confidently assigned to divisions whose stations they share. This is not always the case, however, since component units are sometimes detached for specialized training, and the presence at a post of a number of training units, seldom specified as such, may make it impossible to say which battalion of artillary or engineers is the one organic to the post's division. Of course, the movement of the division will ultimately make that point clear. The composition of a division in World War II (given in the Army Almanac) will also sometimes be of cervice in determining its present composition, since a considerable number of units are certainly still with the same division.

The present study concentrates on combat units of the size of battalion and above, but a great deal more information is available if there were time to assemble it. The disposition of such forces as Medical Corps, Signal, Ordinance, and Quartermaster would, of course, be important for a complete picture. Much might be done with units identified only as AAU, ASU, TSU. The function of many is specified; by observing the branck and the rank of officers assigned one can make diductions as to its nature and its size: *.g. an AAU to which only Signal Corps officers go will be of quite a different kind from one recruited from all branches; the assignment to a mixed group of a Lt. Col. of the Chaplains or Judge Advocate General's Corps means a body of some size and importance. Personnel files could be carried down to any point desired. Ideally, if there were unlimited time, one could

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2. Army Orders. (Cont.)

learn a great deal about the training program from following the movement of junior officers. A more limited study might be made, with profit, of such special bodies as those at Trieste or Sandia Base.

Both the Journal and the Register print material supplementary to that in the orders. Special articles, reports from posts, notices of decorations, social events, weddings, and obituaries often give valuable data. Since these are not necessarily identical in the two periodicals both should be consulted. The orders, of course, are the same, though the second version is a useful check when an item is suspect - typographical errors occur and are sometimes misleading.

It takes about an hour and a half to go through an issue of the Yournal and extract and consolidate the information of the level here presented. Another half hour should suffice for the Register in addition. To extract all the information from both papers would take a great deal longer - four times as long, at a guess. Whatever level of information is desired the search should be systematic; the mere noting of conspicuous items will not give a sound body of information.

3. Hearings of Congressional Committees

In all matters except the location of individual units, the hearings of Congressional Committees are likely to be the primary source of information. Many facts which eventually appear in newspapers and periodicals were originally revealed in these hearings. The most valuable single source is the hearings before the Appropriations

Committee of the House of Representatives. All of the hearings on Army appropriations for 1950, 1951, and 1952 have been read for the purpose of the Polycoff of Representatives.

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So Hearings of Congressional Committees (Cont.)

which have been read for 1950 and 1951, contain little information not already covered in the House Committee. Hearings of the House and Senate Armed Forces Committees, several of which have been read, are valuable in parts, but ten to contain much irrelevant and no-factual material.

Information may be gained from these sources either from direct statements of facts or by inferences from several separate statements. The latter method is particularly applicable to the interpretation of statistical tables, and to discussions preceding and following portions of the hearings omitted from the record. Much of the material given above concerning tanks and tank production is of this inferential nature. The suggestion that 1951 appropriations provide for approximately 5,000 T-47 medium-gun tanks is an inference from the following facts, all stated separately in 1951 and 1952 hearings:

- a. 1952 appropriations include a deficiency allotment of \$123,000,000, applying to a total 1951 appropriation of \$2,838,000,000 for tanks and other vehicles.
- b. The deficiency applies essentially to a contract for T-47's.
- c. The deficiency appropriation is 4-5% of the original approprietion.
- d. The deficiency percentage on T-47's is approximately 10%.
- The original appropriation for T-47's was about \$200,000 per unit.

 It is evident that an inference based on so many disparate facts, not all completely clear, is highly uncertain. Nevertheless such procedure is necessitated by the nature of this investigation. In a continuing operation they would be subject to further check.

Important hearings which arrived too late for use in preparing this report are those on Military and Naval Construction before the House Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0 Armed Services Committee, and on the Mutual Security Program, before CONFIDENTIAL

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5. Hearings Of Congressional Committees (Cont.)
the House Committee on Foreign Affairs.

4. New York Times and Herald Tribune

These newspapers have been read from 1 May to 24 August, 1951.

The information found in them reanges from identification of individual units to strategic planning. The chief classes of articles

in which specific items of information have been found are:

a. Speeches, reports, and press interviews of government and military officials, especially Secretary Marshall, General Collins, and Mr. Charles E. Wilson.

b. Reports of hearings before the Senate and House Committees, especially those on Armed Services, Appropriations, and Foreign Affairs. (These reports are eventually superseded by the committee reports, but delay for printing makes recent reports unavailable for this project. Furthermore, occasional leaks of "off-the-record" testimony in news reports are particularly valuable.)

c. Special articles on matters of specifically military interest,
e.g. activation, training, morale, or overseas shipment and action
of units; new developments in arms and equipment; status of forces
in overseas theaters or the Z.I.

do Reports of hostilities in Korea. (During the period covered these have produced exceedingly little specific material. The communiques of the Army in the Far East have revealed nothing.)

so Appointments to important commands and promotions of general officers.

f. Articles of syndicated columnists and special correspondents.

These was Por Richard 200 and 1920 property Honora Annual 2002-0

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4. New York Times and Herald Tribune (Cont.)

Middleton, end C.L. Sulzberger are the most useful. All appear in the Times.

g. Passing remarks in general articles on foreign affairs and sconomic matters, and other news reports in which reference to Army units is incidental; e.g. an automobile accident involving a soldier whose unit and its location are given.

All of these classes of articles are represented in the following information, found in the two newspapers for Saturday and Sunday, 28-29 July, 1951:

a. From a letter of Mrs. Anna Rosenberg to Senator Byrd of the Senate Investigating Committee on Federal Expenditures:

That two or three new combat divisions will be formed by 30 June, 1952, through improved use of weapons.

b. From Secretary Marshall's testimony before the Senate Armed Forces Committee and subsequent explanatory statements:

The U.S. will have 400,000 men in Europe by 31 December, 1952; 340,000 of this number will be ground troops.

The size and make-up of the "division slice".

The over-all value of equipment sent to our allies, and some break-down by destination and types.

The strategic concept that, as far as possible, the U.S. will provide equipment, the Allies, men. (This was "off-the-record", but published.)

c. From various special articles on military subjects:

The deactivization of the 109th AAA Bgd., of which three

major units have been in federal service since May, 1951; Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0 the name of the companies general, 33rd N.G. Division.

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The brigades and regiments constituting the British Commonwealth Division in Korea.

The present planned strengths of the W.A.C.

- d. A report that Pyongyang radio has identified the 38th Reg. of the 2nd Division as fighting near Yanggu, and claims that it has suffered severs casualties.
- e. Appointments of C/S of 1st Army and of the Commandant, Armored Center, Ft. Knox.
- fo An article by CaL. Sulzberger gives the number of divisions each nation expects to have in Germany under SHAPE by the end of 1952a go An article by Drew Middleton, on Soviet forces in East Germany, makes incidental reference to serious deficiencies in material, especially signal equipment and transport, as evident in U.S. and British forces in Germany in winter of 1950-51.

An average of one to one and a half hours is needed to read these two newspapers each day, in order to be reasonably sure that all relevant material has been noted. Items 6 and 7 are especially time-consuming, but they are necessary for full coverage. It may be fairly assumed that nearly all matters of general national interest appear in these two newspapers. Of the two, the Times is somewhat more useful both because of the greater value of its special writers and because news reports are often published in more complete form by the Times than by the Herald-Tribune. The additional material that may be found in the Herald-Tribune justifies only a cursory reading after careful meading of the Times.

5. The New Heven Register

5. The New Haven Register (Cont.)

consulted, suggests that selected local papers can be a valuable source of information concerning the deployment and training of our armed Zorces. Particularly noteworthy are the announcements of promotions, assignments, decorations and locations of local men. A significant number of Army units have been located through public relations releases to home town papers when no other news of their whereabouts has appeared. Such information is often omitted by the larger metropolitan dailies which tend to ignore movements by units of less than division strength. In an area in which National Guard or Reserve outfits have been called to active duty, it should be possible, through use of local papers, to identify almost every unit and to find rather thorough descriptions of their training, weapons, and future destination. Material of this kind must be used with a degree of caution, however, since careless and inaccurate descriptions of units are not infrequent. When possible, it seems advisable to corroborate local news reports from more dependable sources. To cover the entire country through such materials is a project so large and time-consuming that it could probably be handled test and least expensively by hiring the services of a clipping bureau.

6. Sters and Stripes, European Edition

Probably the best single source of data concerning the disposition of American troops in Europe is the European edition of Stars and Stripes, which has been consulted for the period, 1 April 1951 to 12 July 1951.

On the basis of items printed here it is possible to identify and locate the great majority of Army units of more than company size. While some of this information can also be secured from home publications, many units not mentioned elsewhere are freely mentioned here. Outfits Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0

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6. Stars and Stripes, European Edition (Cont.)

stationed in outlying areas, such as Austria and Triesto, although solden mentioned by ordinary newspapers, are given considerable publicity.

For the identification of units, lists of promotions, ewerds, accidents and contributions to the American Red Cross drive are particularly helpful; but routine news stories supply enough additional information to warrant close scrutiny. Histories of the divisions and of the Constabulary make it possible to ascertain more of their assigned components. The headquarters of many units can be readily located; and these units can then be related to the appropriate military post or subpost. In this way, it is possible to draw up a rather complete list of the outfits situated in each of the main military areas.

7. Stars and Stripes, Pacific Edition

This was available from April 1 to July 12, 1951. It furnished material about the composition and location of units in Korea and Japan not available from other sources. The official communiques were no more informative than those in the New York papers, but there were special articles and random notes which were much more valuable for the investigator. The desire to appeal to the particular pride and interests of readers in combat units has understandably led to the attempt to include as many as possible by name. The extent to which such items appear is, of course. determined by the censorship policy, of which striking examples are observable. On May 26, 27, and 28 the Corps and Divisions on the West, Central, and East Central front were listed in such a way that a good idea of the order of battle was conveyed (the Fast front was, and still is, held by Republic of Korea troops). Immediately after this a double Approved For Release 2004/07/28 ECIA-RDP79R00971A000300020002-0

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7. Stars and Stripes, Pacific Edition (Cont.)

consorable was imposed (8th Army and GHQ) with the result that until June 15 nothing was published which could give military information to anybody. With the return of single censorship on that date an article appeared giving the composition of the Regimental Combat Teems of the 45 Div. This was unique, however, and thereafter only isolated items have appeared. These wometimes lead to larger deductions; notions of the order of battle may be gleaned from the representation at ceremonies of award or from the progress of Jack Benny's show, but names of places are now completely suppressed in connection with units, and there has been nothing like the outburst of May 26-28. Quotations from papers in the United States have occasionally contributed news of interest not in the New York papers.

8. Saturday Evening Post

Harold H. Martin's article, "How we stopped the biggest Chinese offensive, August 4, 1951, pp. 29, 83-85, gives a detailed account of the two actions of April 22 and May 17 and the following days. It records the identities and movements of units, omitting only the 7 and 25 Infantry Divisions and 25 Canadian Brigade, known from other sources to be on the front. The object is obviously to give the public an adequate appreciation of a brilliant action; it would seem that the object was laudable and that the article was likely to be successful. The apparent discrepancy between its explicit information and the taciturnity of the official communiqués may be explained by the fact that this is historical while they are contemporary. The difference is largely illusory, however. Gaver the conditions of battle and of the terrain displacement of large Units Approxed For Release 2004/97/28: CIA-RDP79R00971A000300020002-0 SECKET

8 Saturday Evening Post (Cont.)

May 17-18 must be exceptional, and it may therefore be assumed that the order of battle given in May is still substantially the order of battle of August 1. But the position of units on the front will certainly be known to the enemy very promptly through normal Prisoners and Documents channels, and presumably there is no reason why Americans should not know the order of battle if the enemy does already.

9. News Magazines

Time, Newsweek, and U.S. News and World Report have been consulted.

These magazines have supplied a smattering of information regarding many aspects of the military program. Of the three, Newsweek has probably provided the greatest number of valuable items. It has run a series of articles on manpower, equipment and other mobilization problems which have dentained useful and accurate information. Its feature, The Periscope, often reports up-to-date military developments, some of which have not been found elsewhere. The other magazines have been less helpful. If analysis of military potential were extended, however, to include resources, industrial production and logistics, U.S. News and World Report would be a valuable sid. Its reports on menufacturing and business conditions are its most significant feature.

10. APO Listings

A record of APO listings can be a valuable adjunct to such a project as the present one. A rather complete list can be compiled with the aid of the Army-Nevy-Air Force Journal, the various editions of the Stera and Stripes, and letters to the editors of military publications and news Approved For Release 2004/07/28; CIA-RDP79R00971A000300020002-0 and Air Officer's Guide, Perrisours, Pa., 3rd edition, Feb. 1950,

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10. APO Listings (Cont.)

contains a list of APO's as of that date. This, however, is now obviously out of date; new APO's have been assigned and some of the earlier ones appear to have been nominal even at that time.

APO's should probably be considered a secondary, rather that a primary source of information; they are not always as illuminating as might be expected. In some instances, they are a sure clue to the assignment of units concerned. APO 1, New York, for instance, belongs to the 1st Division and all of its components. This tends to be true of the low-numbered Regular Army divisions, such as the 7th, 24th, and 25th. It is not true, however, of the 3rd or 5th. Later units were clearly assigned APO's without regard for their unit numbers. This practice, of course, makes location and identification more difficult and was probably meant to do so.

Even when APO and unit numbers do not correspond, unit assignments are often clarified by knowledge of their APO's. In some cases the APO can be confidently related to a general geographic area when the location of even one unit having that APO is known. Other units in the same area can then be occasionally related to the same APO; or other units having the same APO can then be located geographically. This method is not infallible, however. Two units having the same APO may be widely separated, while several APO's may serve units in a relatively restricted area. Too great a reliance upon the APO numbers can, consequently, produce real confusion. But, used with caution, the numbers can be a helpful aid in keeping in touch with the location or movements of units overseas.

Appendix VIII contains a list of APO's which have been identified, Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0 with units using the APO, and its apparent location.

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1 .. On the Efficiency of Censorship

The investigation has revealed some successes and some failures of the system of censorship. Information on new weapons is gratifyingly hard to find. The transference of the 3 Infantry Division from Fort Benning to Korea was accomplished with no indications given in sources accessible to us. These are cases in which the advantage of secrecy is obvious. On the other hand, impressive scientific generalities have been published, doubtless with official sanction, and, for a similar reason, the movement of troops to Europe has been advertized rather than concealed.

Policy in regard to units in station is not clear. With respect to units in the Zone of the Interior there is no official publication of their positions except indirectly through Army Orders, but there seems to be no attempt at concealment which would in any case be impractical. Possible exceptions are certain Training Divisions (e.g., 5 Armd. Div.) whose component units are never identified. It seems more likely, however, that the troops in training in such divisions are not organized into units with permanent designations. Otherwise we must assume extreme differences of regulations between posts. On the whole the Army's attitude toward troops in this country seems to be that those interested will find out where they are, and need be neither prevented nor assisted. Much the same principle seems to govern the mantion of troops in Europe and in Japan.

In Korea, however, the situation is quite different. For obvious reasons, the location of Corps and Division Headquarters is concealed. Furthermore, the position of troops relative to the front line is now never indicated in official sources. At the outbreak of hostilities a Approved For Release 2004/07/28: CIARD TO0971A000300020002-0

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11. On the Efficiency of Censorship (Cont.)

great deal of information was given out, on the assumption that the public tad a ligitimate interest in the progress of battle. Communiques grew more and more retisent as the principle prevailed that information as to the location of troops would jeopard their operations. With some fluctuations this has become so fixed as official policy that no unit in combat is named any longer in communiques. The previous theory lingered on, however, in unofficial publications so that material rigidly excluded from releases from headquarters would appear in the Stars and Stripes, Newsweek, or the New York papers. This is clearly the wrong way around. It is useless for headquarters, which is best informed of the facts, to impose silence on itself if what it conceals is to be published by other means. One gets the impression that the difficulty is caused by uncertainty as to what should be concealed and what can be. Prima facie it would be well for the enemy to be entirely ignorant what troops faced them on the line; practically the enemy knows almost at once what troops face them. Concealment, therefore, operates only against friends, whose indiscretion could not convey the news to the enemy as fast as the normal prisoners and documents information. Posts of command, on the other hand. can be hidden until their area is covered by air observation, and the knowledge of such positions is properly restricted to the fewest possible number of people.

AR 380-5, Military Security, 6, m and o list as secret: "Information findicating the strength of our troops, air and naval forces, identity or composition of units or quantity of specific items of equipment pertaining thereto in active theaters of operations except that mailing addresses will include organizational designations" and

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11. On the Efficiency of Consorship (Cont.)

"United States Order of Battle information and locations and moves affecting the Order of Battle."

Aside from breach of these regualtions, the inconsistency in their application results from the fact that they lay down no term for their observance, and it is therefore left to different authorities to determine how long after the event secrecy should be preserved.

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APPENDIX I

SEE CHART APPENDIX I

APPENDIX II

SEE MAP APPENDIX II

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APPENDIX III

DIVISION TABLES OF ORGANIZATION

A. Infantry Division

Entire Division 18,804 (0 958, WO 49, EM 17,797) Infantry 11,322 3 Regiments 3,774 3 Bns 917 3 Rifle Cos., 1 Hq. Co. 211 Heavy Tank Co. (0 6, EM 142) 4 Platoons, 5 tanks each Heavy Mortar Co. (0 6, EM 184) 3 Mortar Platoons (O 1, EM 40) artillery 3,668 3 Bns 105 mm. How (18 How. each) 3 firing Batteries (6 How. each) 1 Bn 155 mm. How. (18 How.) 3 firing Batteries (6 How.) 1 AAA AW Bn Tank Battalion (144 tanks) 677 3 Tank Cos. Engineer Eattalion 972 4 Eng. Cos.

Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0 Reconnaissance Co.

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B. Armored Division

Entire Division	15,973
(0 897, WO 83, EM 14,993)	
Armored Infantry	4,276
l ₁ Bns.	1,069
4 Rifle Cos.	
3 Rifle Platoons (0 1, EM 43)	
Mortar Platoon (3 60 mm. Mortars)	
Tank Battalions	1,434
l Heavy	677
3 Medium	757
ertillery	3,735
3 Bns 105 mm. How. (Sp)	
1 Bn 155 mm. How. (Sp)	
l aaa aw Bn (Sp)	
Engineer 3n	1,095
Reconnaissance Bn	829

C. Airborne Division

Entire Division

16,230

(0 941, wo 56, FM 15,233)

Infantry

3 Abn Inf Reg.

Support Co.

2 Heavy Mortar Platoons (h Mortars each) Antitank Platoon (6 90 mm AT guns)

Artillery

I Ra 155 mm. How.

3 line Abn 105 mm. How.

Tanks

2 Heavy

2 Medium

l Reconnaissance Co.

For operations divided into assault, follow-up, and rear echelons.
Assault echelon, an infantry combat team plus divisional units all capable of being landed by parachute and of holding position until arrival of the follow-up echelon.

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APPENDIX IV

COMPARISON OF MARINE AND ARMY (INFANTRY) DIVISIONS

A. Marine Division Table of Organization

Entire Division	21,198
Infantry	11,265
3 Regiments	3,755
3 Ens	1,081
4 Cos.	228

Artillery

3 Bns 105 mm. How. (18 How. each)

1 Bn 155 mm. How. (18 How.)

Tank Battalion (9 tanks MA3 ca 720

The reinforced 1 Marine Div. was between 24,000-25,000 men in January 1951.

B. Weapons of Marine and Army (Infantry) Divisions April 1951

	Marine	Army		
Infantry	an-communications and			
Carbine, cal30 M2	9,470	7,474		
Rifle, U.S. cal30 ml	8,748	6,913		
Rifle, automatic, cal30		-		
Browning, M1918 M2	903	412		
Gun, machine, cal30				
Browning, M1919 Al flexible	57 5	160		
Gun, Machine, cal30				
Browning, 10917 41	51,	110		
Launcher, rocket, 3.5 in. M20	376	51,6		
Flamethrower, portable 112-2	111	ora _{nim} .		
Mortar, 60 nm. M2	81.	84		
Mortar, 81 mm. Ml	514	40		
Mortar, 4.2 in. M2	24	36		
Artillery				
Howitzer, 105 mm. M2 A1	51,	54		
Howitzer, 155 mm. M1	18	18		
Tanks				
Tank, medium M. A3	9			
Tank, medium M26	85	1 1/1		
Gun, machine, cal. o50				
Артомый Боль 1 deser 300 410 7428 : 1910 - RIJE 79 R009 71 A 000 3000 2000 2-0				

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	Marine	ATTY	
Gun, submachine cal45			
Thompson M1 A1	99	annials: 3	
Rifle, 75 mm. M20	12	39	
Pistol, automatic, cal45			
M911 A1	3,196	2,769	

The above is taken from tables offered by Senator Douglas at Hearings before a Senate Sub-Committee on Marine Corps Strength and Joint Chiefs Representation, 13, 17, 21 April, 1951. Since they were designed to show that a Marine Division has a higher proportion of fire power than an Infantry Division they are not altogether free from ex parte coloring. E.g. Senator Douglas (p. 22) remarks, "The Marine division has . . . 98 (sic) submachine guns whereas the Army has none." In the T/O & E of a Regimental Tank Co. (Infantry Journal, June, 1950, p. 23) 31 submachine guns are listed among the regulation weapons (giving a total of 93 for the Division). It seems most unlikely that between June, 1950 and April 1951, these arms should have been withdrawn without the issue of some other equivalent protection.

Infantry companies are now to be equipped with 7 sniper's rifles per Co.

T/O & E7 (7 July, 1951) assigns 18 liaison planesper Infantry Division.

Each Division has 20 or more helicopters divided between Hq. and Divisional Artillery.

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ORDER OF BATTLE, U. S. ARMY

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ORDER OF BATTLE UNITED STATES ARMY

Zone of the Interior

First Army

Lt. Con. Willis D. Crittenberger, CO

Hq. Governores Island, N.Y.

9 Infantry Division (Training)

Moj. Con. William K. Herrison

Hq. Fort Dix, NoJ.

Components:

39 Inf. (from Bonning between Aug. 1950 and Feb. 1951)

49 Inf.

60 Inf. (Dix. HT 2 July 1951)

364 Inf.

365 Inf. 7 (ANJ 26 Aug. 1950)

26 FA BRo

34 FA Bn.

84 FA Bm.

First Army, Non-divisional Troops.

Fort Devens, Mass.

10 FA BE

Cemp Edwards, Mass.

56 AAA Brigade

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103 AAA Brigade

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245 AAA Gun Br. (MGNY)

259 AAA Gun Br. (NGNY)

369 AAA Gun Bn.

486 AAA Gun Bn.

633 AAA Gun Bn. (NGNY)

West Point, N.Y.

278 RCT (NG Tenn)

278 Inf.

191 FA Bn.

Fort Totten, N.Y.

80 AAA Group

526 AAA Gun Bn.

Fort Hancock, N.Y.

41 AAA Gun Bno

Second Army

Lt. Con. Edward H. Brooks, CG

Hq. Fort George Meade, Md.

VII Corps

Maj. Gen. Withers A. Burress

Hq. Camp Meade, Md.

5 Infantry Div. (Training)

Hq. Indiantown Gap, Pa.

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VII Corps

11 Edward

43 Inf. Div. (NO Vt., Conn., R.I.)

Maj. Gen. Kenneth F. Cramer, CG

Hq. Comp Pickett, Va.

Components:

102 Inf.

169 Inf.

172 Inf.

963 FA BEL

143 Tank Ba.

116 Eng. Comb. Br.

45 MP Co.

45 QM Co.

118 Medo Bno

Alerted for movement to Europe. Will take part in exercise So. Pine at Bragg 13 Aug. - 2 Sept.

3 Armored Division (Training)

Brig. Gen. Raymond E. S. Williamson, CG

Hq. Fort Knox, Ky.

Components:

86 Heavy Tank Bn.

30 Tank Bno

84 Tank Bn.

131 Tank Br.

76 Armde FA Bne

83 Recon. Bn.

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Second Army

11 Airborne Division

Maj. Gen. L. L. Lemnitzer, CG

Hq. Camp Campbell, Ky.

Components:

188 Abn. Inf.

503 Abn. Inf.

511 RCT

511 Abn. Inf.

675 Abn. FA Bn.

89 Abn. FA Bn.

457 Abn. FA Bn.

544 Abn. FA Bn.

675 AAA AW Bn.

76 Hv. Tr. Bn.

141 Med. Tk. Bn.

710 Tk. Bn.

127 Abn. Eng. Combat Bn. (with 187 ROT Korea?)

408 Abn. QM Co.

511 Abn. Sig. Co.

711 Abn. Ord. Maint. Co.

11 Abn. QM Para. Maint. Co.

Li Abn. MP Co.

11 Abn. Med. Ben.

Second Army

101 Airborne Division (Training)

Maj. Gen. Ray E. Porter, CG

Hg. Camp Breckenridge, Ky.

Second Army, Non-Divisional Troops

Fort Meade, Md.

125 Inf. Reg.

3 Armde Cave Rege

35 AAA Brigade

19 AAA Group

230 AAA Group

598 AAA AW Br. (Edwards 4 Aug. 5)

459 AAA AW Bn. (Edwards 4 Aug. 5)

466 AAA AW Bn.

56 AAA Gun Bn.

70 AAA Gun Bn.

75 AAA Gun Bn.

Fort Campbell, Ky.

95 Inf. Bn. (Sep)

388 Eng. Comb. Gp.

1169 Eng. Comb. Gp.

27 Eng. Comb. Bn.

151 Eng. Comb. Bn. Approved For Release 2004/07/28 ECA P79R00971A000300020002-0

Second Army. Non-Divisional Troops, (Cont.)

Fort Compbell, Ky. (Cont.)

317 Abn. Bn.

407 Eng. Comb. Bn.

1092 Eng. Comb. Bn.

1343 Eng. Comb. Bn.

Fort Meyer, Va.

3 Inf. Reg. 1 Bn.

VIO AAA Gun Bn.

Fort McMar, D.C.

3 Inf. Rag. 2 Bn.

Fort Belvoir, Va.

71 AAA Gun Bno

Cemp Pickett, Va.

351 Comm. Recon. Cp. (Scty)

501 Come Recon. Gp. (Scty)

33 Comma Recon. Bn.

301 Commo Recono Bno

304 Comm. Recon. Bn.

352 Comm. Recon. Bn. Scty.

third Army

Lt. Gen. John R. Hodge, CG

Hq. Fort McPherson, Ga.

XVII Airborne Corps

Lt. Gen. John W. Leonard, CG

Hq. Fort Bragg, N.C.

82 Airborne Div.

Maj. Gen. Thomas F. Hickey, CG

Hg. Fort Bragg, N.C.

Components:

325 Abn. Inf.

504 Abn. Inf.

505 Abn. Inf.

508 Abn. Inf.

80 Inf. Bn. Attached Jan. 1951

522 Inf. Bn. Attached 2 Nov. 1950 - 7 Apr. 1951

80 Abn. FA Bn.

319 Abno FA Bno

376 Abn. FA Bn.

455 Abn. FA Bn.

80 Abn. AAA AW Br.

44 Md. Ike Bn.

714 The Br.

307 Abn. Eng. Bn.

407 Abn. QM Co.

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82 /: borne Div. (Cont.)

82 Abno Signal Co.

82 Abn. QM Para. A int. Co.

82 Recon. Co.

782 Abr. Ord. Maint. 10.

XVII COM

Hq. Fort Bracks N.C.

8 Infactry Div

Maj. Gen. Harry J. Collins, CG

Hq. Fort Jackson, C.C.

Components:

13 Inf. Re

28 Inf. Re.,

61 Info Ref . .

Specialists Training Reg.

28 FA Bn.

198 FA En.

106 Eng. Bn.? (<u>S & S</u> 27 May 1951)

31 Infanory Div. (NG Ala. and Miss.)

Maj. Den. A.G. Parton, CG

Hq. Fort Jackson, S.C.

Components:

167 Inf. Reg.

155 Inf. Reg.

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Third Army (Cont.)

47 Infantry Div. (NG Minn. and N.D.)

Maj. Gen. Norman E. Hendrickson

Hq. Camp. Rucker, Ala.

Components:

164 Inf. Rog.

395 FA Bn.

194 Tank Bn.

199 Eng. Comb. Bn.

Third Army

Non-Divisional Troops

Fort Bragg, N.C.

25 Armde Inf. Bn.

30 FA Bro

83 MA Bn.

98 FA Br.

426 FA Bn.

449 FA Obsn. Bn.

540 FA Bn.

599 FA Bn.

980 FA Bn.

37 Eng. Comb. Gp.

406 Eng. Brigade

20 Eng. Comb. Bn.

109 Eng. Comb. Bn.

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Third Army. Non-divisional Troops (Cont.)

Fort Banning, Ga.

30 Inf. Rege

41 FA Bn.

201 Armo FA Bro

4 Eng. Comb. Bn.

60 Eng. Comb. Bn.

78 Eng. Comb. Bn.

10 Ranger Inf. Co.

12 Ranger Inf. Co.

Fort Stowart, Ga.

47 AAA Brigade

35 AAA Gun Bn.

44 AAA Cun Bite

239 AAA Gun Bn.

250 AAA Gun Bn.

260 AAA Gun Bn.

703 AAA Gun Ba.

707 AAA Gun Bn.

713 AAA Gun Bn.

715 AAA Gun Bn.

745 AAA Gun Bn.

773 AAA Gun Bn.

Fort Homer, Fla.

116 FA Bn.

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Fourth Army

120

Lt. Con. Leroy Lutes, CG

Hq. Fort Sam Houston, Tex.

XV Corps

Maj. Gen. R. B. Woodruff, CG

Hq. Camp Polk, La.

l Armored Div.

Maj. Gen. B. C. Clarke, CG

Hq. Fort Hood, Tex.

Components:

25 Armd. Inf. Bn. (at Bragg 14 July 1951)

702 Aimd. Inf. Bn.

58 Armd. FA Bn.

2 AAA AW Bn. (At Bliss 16 June 1951)

16 Amd. Eng. Bn.

81 Recon. Bn.

1. QM Bris

141 Armdo Sigo Co.

123 Armd. Ord. Maint. Co.

501 MP Co.

Provisional Ranger Co.

5 Armored Div. (Training)

Hq. Camp Chaffee, Ark.

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Fourth Army. Non-divisional Troops

Fort Hood, Tex.

306 Armd. Cav. Group

Camp Polk, La.

15 Armd. Cav. Group

17 Armd. Cav. Group

30 FA Group

317 FA Bn.

593 FA Bn.

594 FA Bn.

598 FA Bn.

183 Tank Bu.

195 Tank Bn.

317 Tank Bn.

318 Hv. Tank Bn.

322 Hv. Tank Bn.

500 Tank Bn.

509 Hv. Tank Bn.

510 Hv. Tank Bn.

773 Tank Bn.

822 Tank Bn.

Fort Bliss, Tex.

30 AAA Brigade

28 AAA Gun Bn.

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Fort Bliss, Tex. (Cont.)

57 AAA Gun Bn.

59 AAA Cun Buo

420 AAA Gun Bus

1 Guided Missile Group (under Army Field Forces 18 March 1950. Has absorbed 1 Guided Missile Roge, Sandia Base, White Sands, New Mex.)

Fifth Army

Lt. Can. Stoyhen J. Chamberlain, Ci Eq. Fort Sheridan, Ill.

VI Corps

Majo Geno Paul Wo Kendall

Hq. Camp Atterbury, Ind.

6 Armored Div. (Training)

Maj. Cen. Semiel D. Sturgis, Jr., OJ

Hq. Fort Leonard Wood, Mo.

Components:

94 Inf. Bn. (Sep) ? (at Wood 7 Apr. 1951, AKJ) 76 Arnd. Med. Bn.

10 Infantry Div. (Training)

Maj. Gon. Jones E. Moore, CO

Hq. Fort Riley, Ken.

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123

Fifth Amy (Cont.)

10 Infantry Div. (Training) (Cont.)

62 Hv. Tank Br.

28 Duf. Div. (NG Pa.)

Maj. Gan. Deniel B. Strickler

Hq. Camp Atterbury, Ind.

Components:

109 Inf.

111 RCT

132 Inf.

107 FA Br. (Atterbury, ANY 21 July 1951)

109 FA BB.

278 PA BRO

899 AAA AW Bno

528 Tank Bra.

103 Eng. Comb. Ba.

Alerted for revement to Europe. Will take part in exercise So. Pine at Bragg 13 Aug. - 2 Sept. Hq. in Germany will be mear Munich.

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Non-divisional Troops

Fort Sheridan, Ill.

51 AAA Brigads

5 AAA AW Bm.

Fort Riley, Kan.

91 Armd. Cav. Recon. Bn.

Camp Lucas, Mich.

8 AAA Gun Bn.

Fort Custer, Mich.

22 AAA Group

23 AAA Group

228 AAA Group

79 AAA Gun Bn.

504 AAA Gun Bue

30 AAA AW Bn.

Camp McCoy, Wis.

VI Corps Artillery (sic)

130 FA Group

194 FA Bn.

235 FA Oban. Bn.

272 FA Bn.

330 FA Bn.

887 FA Bn.

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Fifth Army. Non-divisional Troops (Cont.)

Camp McCoy, Wis. (Cont.)

SIG AAA Gp.

68 Eng. Comb. Group

322 Eng. Comb. Group

332 Eng. Comb. Group

31 Eng. Comb. Bn.

32 Eng. Comb. Bn.

114 Eng. Comb. Bn. (Wood 14 July 1951 ANT)?

115 Eng. Comb. Bn.

201 Eng. Comb. Bn.

645 Eng. Comb. En.

Camp Carson, Colo.

14 RCT

157 RCT

11 Arm. Cav. Regt.

3 Inf. Ranger Co. (Abn.)

12 Inf. Ranger Co.

13 Inf. Ranger Co.

40 FA Group

4 PA Ru.

97 FA Ba.

537 FA BR.

558 FA Ba.

547 Armd, FA Bn.

21 Eng. Comb. Bn. Approved For Release 2004/07/28: SERFT R00971A000300020002-0 Countain Training Datachment

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12.6

Fifth Army. Non-divisional Troops (Cont.)

Fort Sill, Okla.

43 Armd. Inf. Bn.

5 FA Group

17 FA Group

18 FA Group

1 FA Bno

2 FA Bn. (Training)

6 Armd. FA Bn.

17 FA Bn.

18 FA Bn.

75 FA Bn.

145 FA Bn.

187 FA Oban. Bn.

469 FA Bn.

529 Airb. FA Bn.

548 FA Bn.

553 FA Bn.

780 FA Bn.

847 FA Bo.

1 Helicopter Transportation Co.

Ft. Leonard Wood, Mo.

20 Eng. Comb. Brigade (Training)

127

Sixth Army

Lt. Gen. Joseph M. Swing, CG Hq. San Francisco, Calif.

III Corps

Maj. Gen. W. B. Koan, CG

Hq. Fort Lewis, Wash.

6 Infantry Div. (Training)

Maj. Con. R. B. McClure, CG

Hq. Fort Ord, Calif.

Components:

12 Inf.

450 AAA AW Bn.

7 Amsored Div.

Brig. Gen. Frank H. Partridge, CG Hg. Camp Roberts, Calif.

Non-divisional Troops

North Richland, Wash.

5 AAA Group

Fort Worden, Wash.

2 Eng. Sp. Brigade

569 Eng. Boat and Shore Reg.

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Sixth Army. Non-divisional Troops (Cont.)

Fort Lewis, Wash.

36 FA Bn.

746 FA Bno

31 AAA Brigade

250 AAA Group

7700 AAA Gun Bn.

11 AAA AW Bn.

36 Eng. Comb. Group

5 Eng. Comb. Bn.

54 Eng. Comb. Bn.

35 Eng. Comb. Bn.

40 Eng. Comb. Bn.

95 Eng. Comb. Bn.

194 Eng. Comb. Bn.

251 Eng. Comb. Bn.

1279 Eng. Comb. Bn.

Camp Roberts, Calif.

354 Eng. Comb. Group

554 Eng. Comb. Bn.

1378 Eng. Comb. Bn.

1401 Eng. Comb. Bn.

1402 Eng. Comb. Bn.

Fort MacArthur, Calif.

409 Eng. Sp. Brigade

570 Eng. Boat and Shore Res. F100971A000300020002-0

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129

Sixth Army. Non-divisional Troups (Cont.)

Camp Cooks, Calif.

281 FA BRG

747 Amp. Tank and Trac. Bn.

Camp Irwin, Califo

16 Armd. Cav. Group

32 Tk. Bn.

117 Truck Co. (NG Calif.)

378 Hv. Auto. Maint. Ordn. Co.

325 Tank Bn. (Tank gunnery school troops)

San Francisco, Calif.

9 AAA Gun Bn.

FAR EASTERN COMMAND

Japan

40 Inf. Div. (N.G. Calif.)

Maj. Gen. Daniel H. Hudelson, C.G.

From Camp Cooke, Calif., to Japan, April 1951

Station, Camp Sendai, Japan

Components:

160 Inf. Reg.

223 Inf. Reg. and RCT

224 Inf. Reg.

143 FA BD

625 FA Bn.

140 AAA AW Bn.

578 Eng. Comb. Br.

740 Ord Maint. Co.

11 Ranger Co.

45 Inf. Div. (N.G. Okla.)

Maj. Gen. James C. Styron, CG

From Camp Polk to Japan, March 1951

Station, Camp Crawford, Hokkaido, Japan.

Components:

179 RCT

179 Inf. Reg.

158 FA Bn.

Co A 120 Eng. Comb. Bn.

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45 Inf. Div. (N.G. Okla.) (Cont.)

180 RCT

180 Inf. Reg.

171 FA Bn.

Co B 120 Eng. Comb. Bn.

279 RCT

279 Inf. Reg.

160 FA Bn.

Co C 120 Eng. Comb. Bn.

169 FA Bn.

145 AAA AW Bn.

245 Tank Bn.

45 Sig. Co.

10 Ranger Co.

187 Reg. Comb. Team

Brig. Gen. Frank S. Brown, Jr., Com.

Originally part of 11 Airborne Div. In Korea since Sept. 1950

On meneuvres in Japan, 22 August 1951

Components:

187 Airb. Inf. Reg.

88 Airb. AAA AW Bn.

2348 QM Aerial Supply Co.

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Korea

132

1. Cav. Div.

Brig. Gen. Thomas L. Harrold, CG

In Japan at outbreak of hostilities. In Kerea ever since.

Station, Western Front, I Corps. APO 201 SF

Components:

- 5 Cav. Reg.
- 7 Cav. Reg.
- 8 Cav. Reg.
- 61 FA Bn.
- 79 FA Bn.
- 82 FA Bn.
- 99 FA Bno
- 92 AAA AW Br.
- 70 Hv. Tenk Bn.
- 6 Med. Tank Bn.
- 8 Eng. Comb. Bn.
- 16 Recor Co.

545 MP Co.

Attached:

21 Thailand Inf. Reg. attached to 8 Cav. Reg. Grack Bn., attached to 7 Cav. Reg.

133

Maj. Cen. Gerald C. Thomas, CG

To California at outbreak of hostilities. In Korea since July 1950. Station, Central Front.

Components:

- 1 Reg.
- 5 Reg.
- 7 Rego
- 11 Reg.
- 11 Tank En.
- 50 AAA AW Bn. (SP) (AAJ Apr. May)

B Inf. Div.

Maj. Gen. Clarkson Ruffner, CG

At Lewis at outbreak of hostilities. In Korsa since Aug. 1950. Station, East Central Front, X Corps. AFO 248 SF.

Components:

9 RCT

23 ROY

25 Inf. Reg.

37 FA BIA

38 Inf. Reg.

38 FA BD

82 AAA AW Bn. (Sp)

72 Hv. Tank Bn.

2 Eng. Comb. Bn.

1 Raidor Co.

Attached:

French Bro

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Maj. Gen. Robert H. Soule, CG

At Benning at cutbreak of hostilities. In Korea since Nov. 1950. Station, East Central Front, X Corps. APO 480 SF.

Components:

7 Inf. Reg. (Devens)

15 Inf. Reg.

65 RCT (Puerto Rico)

9 FA Bn. (155 nm.)

999 FA Bn.

3 AAA AW Bn. (Sp.) APO 468

64 Hv. Tank Bn. APO 468

10 Eng. Comb. Bn.

3 Recon. Co.

Attached:

Belgian Bn.

7 Inf. Div.

Maj. Gen. C. B. Ferenbaugh, CG

In Japan at outbreak of hostilities. In Korea ever since.

Station, Central Front. APO 7 SF.

Components:

17 Inf. Reg.

31 Inf. Rog.

32 Inf. Rega

31 FA Bn.

48 FA Bn.

49 FA BR.

57 FA Bn.

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7 Inf. Div. (Cont.)

15 AAA AW Bn (Sp)

50 AAA AW Bn (Sp) (?) (AAJ May - June)

13 Eng. Comb. Bn.

7 MP Co.

24 Inf. Div.

Maj. Gen. Blackshear M. Bryan, CG

In Japan at outbreak of hostilities. In Korea ever since.

Station, Central Front, IX Corps. APO 24 SF.

Components:

5 RCT (from Schoffeld Barracks TH)

5 Inf. Reg.

555 FA Bn.

19 Inf. Reg.

21 Inf. Reg. and RCT

11 FA Bn.

52 FA Bn.

64 FA Bn.

Battery A. 21 AAA AW Bn. (Sp)

26 AAA AW Bn. (Sp)

52 AAA AW Bn. (Sp)

3 Eng. Comb. Bn.

24 Signal Co.

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25 Inf. Div.

Maj. Gen. Ira P. Swift, CG

In Japan at outbreak of hostilities. In Korea ever since.

Station, Western Front, I Corps. APO 25 SF.

Components:

24 Inf. Reg. (Negro regiment, to be disbanded)

27 Inf. Reg. and RCT

35 Inf. Reg. and RCT

64 FA Bno

90 FA Bn.?

159 FA Bn.

21 AAA AW Bn. (Sp.), except battery A

Battery A, 25 AAA AW Bn. (Sp) attached Jan.-Feb. 1951

79 Hy. Tank Bn.

89 Med. Tank. Bn.

65 Eng. Comb. Bn.

77 Eng. Comb. Bn.

25 Recon. Co.

5 Airborne Ranger Co.

137

Far Eastern Command

Non-divisional Troops

Korea

I Corps

176 Armd, FA Bro

10 AAA Gp.

68 AAA Gun Bno

865 AAA AW Bno, Btry D

933 AAA AW Bnc, Btry A.

78 AAA Gun Bn.

50 AAA AW Bn.

75 AAA AW Bn.

73 Hv. Tank Bno

IX Corps

378 Eng, Comb. Bn.

X Corps

116 Eng. Comb. Bn.

Without Corps Assignment

8 Ranger Co.

10 FA Bn. (Bettery A 1 Apr. 1951)

196 FA Br. (NG Tenn.)

936 FA Bm. (NG Tenm.)

937 FA Bn. (Sp. 155 mm. NG A

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Far Eastern Command. Non-div. Troops (Cont.)

138

19 Eng. Comb. Cp.

1169 Eng. Comb. Bn.

14 Eng. Comb. Bn.

2 Eng. Sp. Brigade (with 7 Div. at Inchon ANJ 23 Dec. 1950)

Japan

34 RCT

187 RCT

11 FA Bn. (assigned to 24 Div.?)

63 FA Bn.

40 AAA Brigade

97 AAA Gun Bn.

138 AAA Gp.

37 AAA Gun Bn.

755 AAA Gun Bn.

37 AAA AW Bn.

507 AAA AW Bn. (assigned to 10 AAA Gp.?)

865 AAA AW Bn. (assigned to 10 AAA Gp.?)

56 Amph. Tk. and Trac. Bn.

Okinawa

29 RCT

65 AAA Gun Bn.

22 AAA AW Bn.

509 Eng. Comb. Bn.

STRENGTH OF U.S. GROUND FORCES, FECOM

OFFENSIVE WEAPONS

1. Rifles, calibre .30 machine guns, BAR's (Carbines, pistols and submachine guns have been omitted as chiefly defensive)	M-19 (SP AA Weapon)	N-16 (SP AA Weapon)	Flame Throwers	Artillery pieces (105 & 155 mm. howitzers)	Tanks (incl. 145 assault guns)	Recoilless rifles (57 & 75 mms.)	Mortars (60 & 81 mms 4.2")	Small calibre offensive weapons	WEAPONS
Rifles, calibre .30 machine guns, BAR's (Carbines, pistols chiefly defensive)	256	256		975	1,192	% 0	1,280	62,144	8 army divs. 2
pistols and s				Z,	66	117	153	6,198	3 RCT's
ubmachine guns have t			Ħ	72	94	ĸ	159	10,280	1 MARINE DIV.
been omitted as	256	256	TI	702	1,352	1,089	1,592	78,622	TOTALS

Strength and JGS representation, 13, 17, 21 April, 1951.

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American Ground Forces in Europe

140

United States Forces in Germany

U.S. Constabulary

ist Constabulary Brigade

Hq.:

CG: Brig. Gen. George W. Read, Jr.

2nd Constabulary Brigade

Hq.: Munich, Germany (The Munich Area)

CG : Brig Gen. George W. Smythe

2 Arm. Cav. Rogt. Augsburg

6 Arm. Cav. Regt. Straubing

14 Arm. Cav. Regt. Friedberg

15 Constabulary Sq. Wieden

16 Constabulary Sq.

24 Constabulary Sq. Schweinfurt

25 Constabulary Sq.

370 Inf. Bn. Regensberg

371 Inf. Bn. Kitzinger

373 Inf. Bn.

70 FA Bn. (?) Fuessen

517 FA Bn. Giessen

519 FA Bn. Dieburg

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American Ground Forces in Europe (Cont.)

1st Infantry Division

CG: Brig. Gen. Thomas S. Timberman

Ass't CG: Brig. Gen. Samuel G. Conley

Hq.: Darmstadt

On occupation duty in Germany since 1945

16 Inf. Regt. Numberg

18 Inf. Regt. Aschaffenberg

26 Inf. Regt. Bamberg

63 Tank Bn. Heidelberg

5 FA Bn Kitzingen

7 FA Bn.

32 FA Bn. Aschaffenberg

33 FA Bn.

15 FA Bn., Btry D (?) (7 July 1951)

1 Eng. Comb. Bn. Darmstadt

1 Sig. Co.

1 QM Co.

1 C.I.C. Det.

Attached: 379 Inf. Bn. (30 September 1950)

American Ground Forces in Europe (Cont.)

4th Infantry Division

CG : Maj. Gen. Harlan N. Hartness

Hq.: Frankfurt (Mannheim?)

Division activated at Fort Benning, Ga., in October 1950.

80% of its men were drafted between July and November.

First contingent landed at Bremerhaven in June 1951.

8 Inf. Regt.

22 Inf. Regt.

40 Hv. Tank Bn.

20 FA Bno

29 FA Bn.

42 FA Bn.

44 FA Bn.

46 AAA AW Bn. (SP)

4 Eng. Comb. Bn.

704 Ord. Maint. Co.

2nd Armored Division

CG : Maj. Gen. Williston B. Palmer

Hq.: Baumholder, Germany (Temporary)

Division stationed at Fort Hook, Texas, 1950-1951.

Sailed for Germany, June, 1951, arrived July, 1951.

12 Arm. Inf. Bn.

41 Arm. Inf. Bn.

42 Arm. Inf. Bn.

1 Med Tank Bn.

29 Hv. Tank Bn.

57 Med. Tank Bn.

66 Med. Tank Bn. (?)

67 Med. Tank Bn.

3 Arm. FA Bno

14 Arms FA Bno

16 Armo FA Bro

58 Armo FA Bn.

597 Arm. FA Bn.

82 Recon. Bn.

17 Arme Enge Bne

48 Arm. Med. Bn.

124 Ord Bn.

142 Arm. Sig. Co.

2 M Bn.

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American Ground Forces in Europe (Cont.)

United States Forces in Austria (USFA)

Hq : Selzburg, Austria

CG : Lt. Gen. S. LeRoy Irwin

USFA Tactical Command, CG: Brig. Gen. James C. Fry

350 Inf. Regt.

Salzburg

4 Recon. Bn.

Horsching

77 FA Bn.

510 FA Bn.

Linz

70 Eng. Combat Bn.

791 MP Bn.

796 MP Svc. Bn.

Viema

63 Sig. Operations Bn. Salzburg

63 Sig. Co.

Salzburg

516 Sig. Co.

Salzburg

Trieste United States Troops (TRUST)

Hq.: Trieste

CG: Maj. Gen. Edmund B. Sebree

351 Inf. Regt.

88 Recon. Bn.

7100 AU AMG Det.

CONFLOENTIAL

Miscellaneous Units, Europe

6 Inf. Regt.

Berlin

557 Inf. Platoon (EUCOM Honor Guard) Heidelberg

7732 FA Gp.

Sonthofen, Germany

7 FA Bn.

Schwabach

74 FA Bn.

Germany

12 AAA Gp.

Karlsruhe

16 AAA Gp.

United Kingdom

32 AAA Brigade

Mildenhall, U.K.

34 AAA Brigade

Heidelberg

39 AAA Gun Bn.

Germany

552 AAA Gun Bn.

Germany

4 AAA AW Bno-

United Kingdom

39 AAA AW Bn.

U.K.

48 AAA AW Bn. (SP)

Karlaruhe

60 AAA AW Bn.

U.K.

62 AAA AW Bn.

Ludwigsburg, Germany

73 AAA AW Bn. (SP)

Germany

443 AAA AW Bn.

Germany

18 Eng. Comb. Bn.

Wetzlar, Germany

54 Eng. Comb. Bn

Germany

485 Eng. Comb. Bn.

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Augsburg Military Post

Subposts: Fuessen, Furstenfeldbruck AB, Ksufbeuren,

Landsberg AB, Sonthofen.

CO: Col. James J. Pirtle

Units:

2 Armo Cavo Regt.

7732 FA Gp.

70 FA Ba

539 General Dispensary

66 CIC Deta

7756 Audit Agency

53 Labor Supervision Co.

7815 SCU

MP Customs Unit

504 Labor Supervision Co.

540 Disponsary

22 Ord. MAM Co.

18 Eng. Const. Bn.

15 MP CID

Region XII, 66 CIC Det.

Berlin Military Post

CO: Col. Maurice W. Daniel

Commandant U.S. Forces, Berlin, Maj. Gen. Lemmel Mathewson Units:

6 Inf. Regt.

759 MP Bn. Approved For Release 2004/05/27 DIFFRDP79R00971A000300020002-0

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Berlin Military Post (Cont.)

147

298 Army Band

7780 Hq Bn.

Bremerhaven Port of Embarkation

CG: Brig. Gon. Charles D. W. Canham

APO 69, New York

Units:

382 MP Sv. Bn.

98 Transportation Port Co.

17 Transportation Major Port Co.

15 Port Ba,

7775 Sig. Syc. Co.

Frankfurt Military Post

Subposts: Bad Nauheim, Darmstadt, Hanau, Rhine-Maine AB,

Kassel, Hersfeld, Folda, Giessen.

CO: Brig. Gen. Basil H. Perry

Units:

V Corps

l Inf. Div.

4 Inf. Div.

14 Arm. Cav. Regt.

517 FA Bn.

519 FA Br.

1 Eng. Comb. Bn.

18 Eng. CombSEGRET

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Frankfurt Military Post (Cont.)

529 MP. Svc. Co.

709 MP. Svc. Bn.

179 Sig. Dap. Gp.

52 MP CID

7772 Sig. Svc. Co.

7811 SCU Prov. Trng. Co.

Hanau Engineer Depot (599 Eng. Base Dep.?) Region III, 66 CIC Det.

Garmisch Military Post

Intelligence and MP School, EUCOM
Engineer School, EUCOM

Heidelberg Military Post

Subposts: Karlsruke, Mannheim

CO: Col. P. J. Lloyd

Units:

EUCOM

63 Tank Br.

34 AAA Brigade

12 AAA Gp.

48 AAA AW Bn. (SP)

28 TT Bno

557 Inf. Rifle Plat.

17 Sig. Opn. Bn.

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Approved For Release 2004/07/28 CARDP79R00971A000300020002-0

7809 SCU

7888 Sp. Tps. (WAC)

7774 Sig. Bn.

7709 Eng. Bn.

481 MP CID

511 MP Svc Plat.

527 MP Svo. Co.

533 MP Svc. Co.

7820 Mil. Prison Guard Co.

33 Army Band

437 Army Band

Mennheim Staging Area

Linz Military Post

CO:

Units:

510 FA Bn.

Munich Military Post

Subposts: Bad Tolz, Berchtesgaden, Dachau, Deggendorf, Erding AB,

Landshut, Munich-Riem AB, Murnau, Regensberg, Straubing

Neubiberg AB,

CO: Col. Stanley J. Brogen

Units:

- 2 Constabulary Brigade
- 6 Arm. Cav. Regt.

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Munich Military Post (Cont.)

116 Sig. Svc. Bn.

Munich QM Depot

Region IV, 66 CIC Det.

Region V, 66 CIC Det.

Nuraberg Military Post

Subposts: Bamberg, APO 139, New York, Ansbach, Bayreuth, Erlangen, Grafenwohr, Schwabach.

CO: Brig. Gen. Ernest A. Birby

APO 696, New York

Units:

16 Inf. Regt.

26 Inf. Regt.

7 FA Bn.

556 Ord. MM Co.

15 Constabulary Sq.

7810 Sta. Complement Unit

7777 Sig. Svc. Co.

512 MP Svc. Plat.

793 MP Svc. Bn.

27 Base P.O.

71 Ord. Bn.

15 Evac. Hosp.

626 QM Refrig. Co.

84 QM Depot Co.

17 Sp. Svc. Co.

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Nurnberg Military Post (Cont.)

151

24 Trans. Trk. Co.

7747 MP Railway Security Gp., Det. B

38 Army Band

EUCOM Exchange System Gp.

427 CIC Det.

Rhine Military Post (Cont.)

Created 28 March 1951

CO: Col. Oliver W. Hughes

Units: 2 Arm. Division (?)

Salzburg Military Post

QG:

Units:

Usfa

350 Inf. Regt.

63 Sig. Operations Bn.

63 Sig. Co.

516 Sig. Co.

Stuttgart Military Post

Subposts: Stuttgart Municipal Subpost, Bad Mergentheim

COs

Units:

Seventh Army

62 AAA AW Bn. Approved For Release 2004/07/28 : CIA-RDP79R00971A000300020002-0

SENTIAL

539 MP SUC Co.

97 Sig. Opn. Bn.

66 CIC Deto

Vienna Military Post

CO: Brig. Gen. William T. Fitts, Jr.

Units:

796 MP Swc. Bn.

Wiesbaden Military Post

Subposts: Wiesbaden AB

CQ: Brig Gen. Fay R. Upthegrove

Units:

7111 Mtr. Veh. Sq.

7112 Supply Sq.

459 Med. Gp.

51.7 AP Sq.

Wurzburg Military Post

Subposts: Kitzingen, Aschaffenburg, Bed Kissingen, Hammelberg,

Schweinfurt, Wildflechen, Wurzburg Municipal Subpost.

CO: Brig. Gen. Theodore L. Futch

Units:

24 Constabulary Sq.

371 Inf. Bn.

18 Inf. Regt.

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Wurzburg Military Post (Cont.)

32 FA Bno

537 MP Co.

Region XI, 66 CIC Det.

154

STRENGTH OF U.S. GROUND FORCES, EUROPE

OFFENSIVE WEAPONS

Small calibre offensive weapons	15,536	3,840 6	5,607	MISC. UNITS
Mortars (60 & 81 mms 4.2")	320	83	132	188
Recoilless rifles (57 & 75 mms)	240		39	126
Tanks (incl. 14-45 assault guns)	298	361	445	165
Artillary nieros (105 & 155 mm		}		!
Arthiery pieces (105 & 155 mm. howitzers)	144	72	Z.	72
M-16 (SP AA Weapon)	64	32		128
Majo (SP A) Weston	64	32		
ייישלי (סי אני הפלימיו)				128
Flame Throwers			,	L
Flame Throwers 1. Using T/o & E 7N, 7 July 1948 as	the basis	for calculation.	den Green et stelle des de stelle de	128
Flame Throwers 1. Using T/o & E 7N, 7 July 1948 as the basis for calculation. 2. T/O & E 17N, 8 October 1948.	the basis	for calculation.		128
	the basis	for calculation.		128
- 7a - 1 te 1	the basis FA Ens. onl	for calculation. y (Constabulary a	9 4	128 mitted). FA Bns. & 4 A&A AW Bns.)

Excluding weapons on combat vehicles.

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Iceland Defense Force

OG: Brig. Gen. E. J. McGew

C/S: Col. Aubrey S. Newman

Air Base Commander and Air Force Deputy: Col. Andrew
D. Moore, USAF

Alaskan Command (U.S. Army, Alaska)

CG: Lt. Gen. William E. Repner

Hqs Fort Richardson, Alaska, APO 942, Seattle

4 Inf. Regt. 3 Bn. Ladd AFB

196 RCT Anchorage

867 AAA AW Br. (SP) Ladd AFB

571 Comp. Svc. Co. Ladd AFB

500 QM Svc. Co. Fort Richardson

Caribbean Command (U.S. Army, Caribbean?)

CG: Lt. Gen. William H. H. Morris

Hq.: Quarry Heights, Canal Zone. APO 834, New Orleans.

33 Inf. Regt.

Howard Field, Fort Cobb, C.Z.

SEGRET (Sq.?)

C.Z.

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Caribbean Command (U.S. Army, Caribbean?) (Cont.)

764 AAA Gun Bn.

Fort William D. Davis, C.Z.

50 MP CID

Pacific Command (U.S. Army, Pacific)

CG:

Deputy CG: Maj. Gen. Percy W. Clarkson

Hqo: Fort Shafters, Oahu, T.H. APO 958

7 Eng. Brigade

Eniwetok Is.

79 Eng. Construction Bn.

Hawaiian Signal Operations Cp. Fort Shafter, T.H.

Task Force 3

Hickem AFB, T.H.

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APPENDIX VI

SEE TABLE - APPENDIX VI

APPENDIX VII

SEE TABLE - APPENDIX VII

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	APCS	13
Number	Units	Location
aPO 1, New York	1 Inf. Division	Darmstadt
	Attached Units	
AFO 3, San Francisco		FECOM
APO 5, " "	8018 AU Cp. Maugan, Comp. Svc. Co.	
APO 6, " "		Pusan, Korea
	•	(Feb., 1950)
APO 7, " "	7 Inf. Division	Korea
	Attached Units	
APO 9, " "	25 Sta. Hosp.	
	22 MP CID	
APO 15, " "	Hq. Cp. Osaka Sp. S. Sec.	Japan
	Hq. Southwestern Command	n .
APO 24, "	24 Inf. Division	Korea
	Attached Units	
APO 25, " "	25 Inf. Division	e#
	Attached Units	
. APO 27, π π	Hq. Repl. Bn., 8068 AU	FECOM
6PO 32, * "	Hq. Cp. Chichamauga	
APO 43, " "		
APO 46, New York	Hq., Seventh Army	Heidelberg
	Hq., 7827 M.I. Co.	
APO 58, " "	9042 AAU, Paris Finance Office	Paris
	7965 Area Comm.	
	Sp. S. Europeán Comm. Exchange System	

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7966 EUCOM Det., JA Sec.

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Tumber	Units	Location
4PO 59, San Francisco	Hq., Eighth Army	
	167 Trans. Trk. Bn.	
	21 MP CID	•
	304 Sig. Opns. Bn.	
	. 2 Logistical Comm.	
	704 CIC Det., 2 Log. Comm.	
	7 Trans. Medium Port.	
APO 61, New York		Landsberg, Germany
(1) 62, " " "	14 Arm. Cav. Regt.	Friedberg, "
	37 Trans. Hwy. Trans. Div.	Gad Kissingen,"
190 66, " "	8606 AAU Herzo Base	Erlangen, "
	7810 Sta. Complement Unit	Erlangen, "
APO 69 " "	7749 Staging Area	Bremerhaven, "
•	7749 Det. Trans. Det.	रहे स
	7775 Sig. Svc. Co.	n n
APO 74, San Francisco		Clark Field, Luzon
510 75 ₉ " "	507 AAA AW Bn.	FECOM
	865 AAA AW Bn.	FECOM
1PO 82, New York	26 Base P.O.	Frankfurt, Germany
APO 86_{g} San Francisco		Iwo Jima (1950)
APO 134, New York	32 FA Bn.	Aschaffenburg
JPO 139, " "	26 Inf. Regt.	Bamberg, Germany
	427 CIC Det., Team 11	и и
AFO 154, " ",	97 Sig. Opn. Bn.	Stuttgart, "
	7746 Comm. Intel. Svc.	ti ti
	66 CIC Det., Kq.	组

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	•	."	- •	160	
amber_			Units	Location	
410 162,	New	York	7731 Sp. Svc. Dep. Co.	Aschaffenburg, Germany	,
110 168,	18	19	USFA, Hq.	Salzburg, Austria	
APO 169,	11	***		Wetzlar, Germany	
%PO 171,	16	ot.	24 Constab. Sq.	Schweinfurt, Germany	
				(Fritzlar? ")	
			66 CIC Det., Region X		
MPO 172,	Ħ	19	EUCOM Intel. and MP School	Garmisch, Germany	
			EUCOM Engineer School	12	
aro 174,	10	tü	4 Recon. Bn.	Horsching, Austria	3
•			67 MP Co.	dg 10	
			77 FA Bn	88 P7	
			488 Col. and Gen. Supplies Dep.	fü fö	
APO 175,	10	FG	·.	Darmstadt, Germany	
APO 178,	85	9 ℃	2 Arm. Cav. Regt.	Augsburg, "	
			18 Eng. Const. Bn.	63 (1)	
			15 MP CID	2B IC	
			66 CIC Det., Region XII	19 19	
APO 178A,	19	F F	18 Eng. Comb. Bn.	Giessen, "	
APO 182,	San F	rancisco		Guam (1950)	
aPO 186,	18	69		dd b5	
APO 187,	10	C#	516 MP Svc. Co.		
			7126 AU		
			7128 AU		
			7130 AU, Hq. Sp. Svc. Det.		
			506 CIC Det.		
AFO 201,	r\$	9 8	1 Cav. Division	Korea	

Attached Units
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• •		lol
# Ander	Units	Location
APO 205, New York	U.S. Military Mission	Iran
APO 206, " "	Joint U.S. Military Aid Group	Greece
APO 206A, " "	U.S. Aid Group	Turkey
APO 207, п п		Erding, Germany
APO 208, " "		Furstenfeldbruck, Germany
APO 209, " "	TRUST	Trieste
	281 MP Svc. Co.	n
AFO 225, " "	370 Inf. Bn.	Regensberg, Germany
	55 CIC Det. Region V	n 18
APO 226, San Francisco		Haneda Field, Honshu
A.O 259, " "		Okinawa
APO 244, " "		Saipan
APO 246, " "	Harianas-Bonins Command	
4HO 248, " "	2 Inf. Division	Korsa
	23 Inf. Regt.	19
APO 249, " "		Guam
APO 264, " "	IX Corps, Hq.	Korea
APO 301, " "	14 Eng. Combat Bn.	FECOM
	726 Trans. Trk. Co.	n .
	60 Sig. Svc. Co.	36
	532 Sig. Const. Co.	37
	8202 AU US Mil. Adv. Gp. to Republic	н .
	of Korea	
	167 Trans. Trk. Bn.	n .
	185 Eng. Const. Bn.	n
	51 MP CID	Ħ .

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Numbers	Approved	Units	164
A 0 301,	San Francisco		Locations
	(cont.)	4 Sig. Bn.	FECOM
		442 CIC Det., GHQ, FEC	1 0
		89 Med. Thk. Bn.	
			rt .
		20 MP CID	n .
APO 305	New York	60 Ord, Gp.	tt
	New York	6 Arm. Cav. Regt.	Straubing, Germany
		51 Sig. Svc. Det.	
	(1 29	209 MP Co.	Japan
AFO 323,			n
APO 328,			£1
APO 331,	6.5 6.9	8111 AU Sig. Svc.	Okinawa
		40 MP Bn.	rę
Aid 334.	14 14		Guam
APO 343,	6R 12	Japan Logistical Com	mm., Hq. Yokohama, Japan
APO 349,	13 15		Bremerhaven, Germany
ANO 354,	n n		FECOM
aio 358,	\$\$ 58	I Corps, Hq.	Korea
AFO 403, N	lew York	EUCOM Hq.	Heidelberg, Germany
		48 AAA AW Bn. (SP)	H n
		77 Eng. Const. Bn.	1R #2 .
		17 Sig. Opn. Bn.	19 18 ·
	_	7744 Educ. Trng. Unit	tā ep
	7	-	"

Mannheim

Pasing, Gormany

Korea

Korean Mil. Adv. Gp.

481 MP CID

2 Const. Brig.

AFO 403A, "

APC 404, San Francisco

ATO 407, New York

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A taber			Units	Location /65
AFO 407	A, New	York	66 CIC Det., Region IV	Munich, Germany
6f0 408	, San	Prancisco	3 Inf. Division	Korea
			7 Inf. Regt.	a
ASO 455	, "	PŽ		Sand Island, Oahu
AFO 459)	88		Ft. Shafter, "
APO 468,	, 13	10	16 Inf. Regt.	Korea
			3 AAA AW Bn. (SP)	11
			64 Hv. Tank Bn.	rt .
AFO 500,	18	F@	FECOM, GHQ	Tokyo, Japan
			ASA PAC Hq.	II (f
			441 CIC Det.	98 98
			406 Med. Gen. Lab.	t9 t9
APO 503 ,	(\$	99	2 Trans. Major Prt.	Yokohama "
			13 QM Bn.	n n
			44 Mb CID	99 59
			Yokohama Eng. Depot	co eo
			Japan Logistical Comm.	tt ti
AFC 541,	64	sto .	CIC, USFA, Hq.	Salzburg, Austria
			350 Inf. Regt.	R &
			63 Sig. Bn.	19 19
APO 547,	60	38	BO12 Comp. Svc. Co.	Japan
			3017 Comp. Svc. Co.	10
APO 600,	PQ.		772 MP Bn.	
			308 Mil. Govt. Gp.	
APO 612,	FŞ	148		eR
APO 613,	18	3 0		

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						/ 6 Y
	Numb	or			Unita	Location
	AFO	6 33 ,	New	York		Wiesbaden, Germany
	APO	660,	San	Francisco	70 Hy. Tank Bn.	FECOM
	•				247 Ord. Sup. Det. Co.	
					323 Eng. L. E. Co.	
	APO	676,	New	York	9041 AAU	Rio de Janeiro, Brazil
`	APO	677,	10	18		Goose Bay, Labrador
x	AFO	696,	et	ij	24 Trans. Trk. Co.	Furth, Germany
	APO	696A	9 19	19	7738 EUCOM Exchange System Gp.	Nuremberg, Germany
	ΔPO	703,	San	Francisco		Japan
	APO	707,	98	8 0		Manila, P. I.
	6.PO	710,	18	69		Japan
	6.PO	713,	19	¢8		65
	APO	714,	9 4	88		Philippine Islands
	APO	719,	29	2 9	9 Ord. MAM Co.	
	APO	726,	Sea	ttle		Attu Is., Alaska
	APO	729,	63			Shemua Is., "
	APO	731,	13		867 AAA AW Bn.	Ladd AFB,, "
					571 Comp. Svc. Co.	57 16 46
	APO	733,	10			Big Delta, "
	APO	736,	San	Francisco	7	Manila, P. I.
4 1	APO	742,	New	York	6 Inf. Regt.	Berlin, Germany
					7781 SCU	15 (9
7	APO	743,	H	FÜ		Wurzburg, "
	APO	751,	ti	79		Bremen, "
	APO '	757,	ı	78	709 MP Svc. Bn.	Frankfurt,"
					000 01 0	

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779 Sig. Dep. Gp.

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Rumber	Unit a	
	Units	Location
APO 757, New York (cont.)	7811 SCU	Frankfurt, Germany
	52 MP CID	10 15
	599 Eng. Base Depot	19 12
	66 CIC Dat., Region III	98 98
	8620 Sig. CU	70 pg
APO 777, " "	796 MP Svc. Bn.	Vienna, Austria
	7669 MIS Det., Sub. Det. "C"	15 19
APO 777A, " "		Salzburg, Austria
APO 800, " "	66 CIC Det., Reg. XI	Wurzburg, Germany
APO 807, " "	14 Arm. Cav. Regt.	Bad Nauheim, Germany
	528 MP Svc. Co.	90 49 es
APO 821, New Orleans	U.S. Army, Caribbean, Pacific Sector CMC, Pacific Sector	Ft. Clayton, C.Z.
APO 828, " "	Assol recrift Decrot.	
· ·		Corozal, "
APO 829	764 AAA Gun Bn.	Ft. Wm. D. Davis, C.Z.
APO 830, " "		Ft. Dehesseps,
APO 831, " "		France Field, "
APO 832, " "	33 Inf. Regt.	Ft. Kobbe, "
APO 834, " "	U.S. Army Caribbean, Hq.	Quarry Heights, "
	50 MP CID	11 14 11
APO 835, " "		Randolph Field, "
APO 836, " "		Ft. Sherman,
APO 837, " "		Ft. Gulick, "
APO 838, " "		Rio Hata, Panama
APO 843, New York	USA Radio Station, Hq.	
APO 845, " "		Borinquen Field, P.R.
APO 846, " "	CENDET	
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	Bunk	MIG.			Units	Location
	APO	847,	New	York		Henry Barracks, P.R.
	APO	848,	67	tš		Losey,
	APO	851,	13	16		Ft. Brook "
	APO	851A,	, 11	if	Buchanan Gen. Depot	₹ê
	APO	854,	18	13		Ft. Bundy, "
1	APQ	855,	18	18		Coolidge Field, Antigua,
1	APO	856,	iŧ	19		Ft. Ball, Bermuda
	APO	857,	13	fē	·	Atkinson Field, Br. Guiana
	APO	858,	10	16	Greenland Base Command	Narsarssuak, Greenland
	APO	859,	18	18		Sonchestromfjord, "
	APO	861,	19	10		Ft. Simonds, Jamaica, BWI
	apo	862,	19	ıf	Pepperell AFB	St. Johns, Newfoundland
	APO	86 3 ,	18	19	McAndrew AFB	Argentia, "
	APO	864,	18	18	Harmon Field	Stephenville, "
	APO	867,	18	12	Beane Field	St. Lucia, BWI
	APO	869,	25	ľ\$	Ft. Read	Trinidad, BWI
	APO	872,	n	10	·	Marburg, Germany
	APO	897,	New	Orleans	•	San Jose Is., Panama
	APO	900,	San	Francisco		Manila, Luzon
	APO	902,	\$8	\$£		Japan
•	APO	909,	et	88	X Corps, Hq.	Korea
	A.PO	919,	H	15	753 AAA Gun Bn.	Japan
	APO	925,		10		Tokyo, Japan
	APO	9 29	13	eu eu		Japan
	APO	932,	Sea	ttle		Nome, Alaska
	APO	939,		ŧŪ	Ft. Mears SFGRET	Dutch Harbor, Alaska
	APO	942,		¹⁵ Approved		40 56 30 6626962.6 0n, "

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Number	Units	Location
APO 942, Seattle (cont.)	500 QM Svc. Co.	Ft. Richardson, Alaska
APO 944, "	Ft. Randall	Cold Bay, Alaska
APO 948, "	Ft. Glenn	Umnak Is., "
APO 949, "	5005 Hosp. Gp.	Whitehorse, Yukon, Canada
APO 951, "	Bellows Field	Oahu, T. H.
APO 953, "	Hickam Field	19 16
·	Pacific Air Command	19 17
APO 954, "	Ft. Kamahameha	50 12
aro 956, "	Pt. Ruger	PT PS
APO 957, San Francisco	Schofield Barracks	19 15
	8065 AAU	PS 178
	10 Bn. Hawaiian Inf. T.C.	11 et
APO 958, " "	U.S. Army, Pacific Hq.	Ft. Shafter, Oahu, T.H.
APO 960, " "		Hilo, Hawaii, T.H.
APO %1, " "	·	Kahului, Main, "
APO 963, " "		Hanapepe, Kanai,"
APO 970 ₈ " "	·	Japan
AFO 973, " "	3 Logistical Comm.	FECOM
	14 Trans. Port. Bn.	48
APO 980, Seattle		Adak Is., Alaska
AFO 986, "		Amchitka Is., "
APO 987 ₂ "		Whittier, "
APO 994, San Francisco	64 AAA AW Bn.	Japan
	138 AAA Gp.	18
AFO 1005, * *		63
APO 1007, "	SECRET	11
APO 1009, " Approved F	For Release 2004/07/28 : CIA-RDP79R0097	71A000BQ962Q092IQ

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fiumi)e1,	en Units		Location	
APO	1051,	Sen	Francisco	Tokyo QM Depot	Tokyo, Japan
APO	1052,	n	13		68 86
AFO	1054,	19			FECOM
AFO	1055,	***	99		Tokyo, Japan
APO	1105,	18	:		Japan

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SECTION III

THE NAVY

SECRETTAL

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III. THE U. S. NAVY

I	Organization	171		
II	Size	176		
III	Deployment			
IV	Bases	193		
¥	Weapons	201		
VI	Undersea Warfare			
	Appendix A: Performance of Naval Aircraft	218		
	Appendix B: Production of Naval Aircraft	21,3		
	Bibliographical Note	21,6		

Scope of this Report

According to the directive under which this report was written, the investigators were confined to a study of the major combatant units in the U.S. Fleet. Consequently it contains no information regarding minesweepers, patrol vessels, amphibious craft, and auxiliaries; transport or training aircraft; training; or the organization and operation of the Naval and Marine Corps Reserve.

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I. ORGANIZATION

A. Department of the Navy (1)

Dan A. Kimball Secretary of the Navy Under Secretary of the Navy F. P. Whitehair Assistant Secretary of the Navy John T. Koehler Assistant Secretary of the Navy for Air John F. Floberg Chief of Naval Operations Adm. W. M. Fechteler Vice Chief of Naval Operations Adm. D. P. Duncan Naval Inspector Ceneral Rear Adm. H. S. Kendall Deputy Chief of Naval Operations Vice Adm. L. T. DuBoss (Personnel) Deputy Chief of Naval Operations Reer Adm. C. C. Hartman (Administration) Deputy Chief of Naval Operations (Operations) Vice Adm. F. S. Low Deputy Chief of Naval Operations (Iogistics) Deputy Chief of Naval Operations (Air) Vice Adm. J. H. Cassady Rear Adm. Thomas S. Combs Chief, Bureau of Aeronautics Chief, Euremu of Medicine and Surgary, Rear Adm. H. L. Pugh, MG and Surgeon General Chief of Naval Personnel Vice Adm. J. W. Roper Rear Adm. M. F. Schoeffel Chief, Bureau of Ordnance Chief, Bureau of Ships Rear Adm. David H. Clark Chief, Bureau of Supplies and Accounts Rear Adm. C. W. Fox Chief, Bureau of Yards and Docks Rear Adm. J. W. Jellay Judge Advocate General of the Navy Rear Adm. G. L. Russell Commandant of the Marine Corps Gen. Clifton B. Cates, USAC

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B. Atlantic Fleet

Cin C Lant

Vice Adm. L. D. McCormick

Chief of Staff

Rear Adm. W. G. Switzer

Com Air Lant

Vice Adm. J. B. Ballentine

Com Bat Lant

Com Cru Lant

Rear Adm. J. L. Hollaway

Com Dir Lant

Rear Adm. F. G. Fabian

Com Sub Lant

Rear Adm. S. S. Murray

Com Mine For Lant

Com Serv Lant

Com Tra Lant

Com Phib Lant

Vice Adm. R. P. Briscos

Phib Tra Com

Rear Adm. A. J. Wellings

Com Lant Res Fit

Com Gen FMF

Maj. Gen. G. B. Erskine

Com Air FMF

Maj. Gen. T. J. Cushman

Com Eas Sea Fron

Vice Adm. O. C. Badger

Com Lant Sea Fron

Com Second Fleet

Com Fourth Fleet

Com Eighth Floot

Com Nav For Germany

Rear Adm. C. F. Holden

Com Iceland Defense Force

Com Fair Wings Lant

Rear Adm. R. C. Whitehead

Com Fair Quonset

Com Fair Norfolk

Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0 Com Fair Jacksonville Store Rear Adm. O. B. Hardison

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C. Naval Forces Eastern Atlantic and Mediterrangan

Cin C NEIM

Adm. R. B. Carney

Com Nav UKEL

Rear Admo W. F. Boone

Com. Nav For Mid East

Com Sixth Fleet

Vice Adm. M. B. Gardner

Com Serv For Sixth Fleet

Rear Adm H. H. McLean

D. Pacific Fleet

C in C Pac

Adm. A. W. Radford

Chief of Staff

Com Air Pac

Vice Adm. T. I. Sprague

Com Bat Pac

Com Cru Des Pac

Vice Adm. J. W. Roper

Com Sub Pac

Rear Adm. C. B. Momzen

Com Mine For Pac

Hear Adm. J. N. Higgins

Com Serv Pac

Rear Adm. C. F. Denebrink

Com Tra Pac

Com Phib Pac

Rear Admo I. No Kiland

Phib Tra Com

Rear Adm. F. X. McInerny

Com Pac Res Flt

Vice Adm. J. L. Hall

Com Gen FMF

Maj. Gen. O. P. Smith

Com Wes Sea Fron

Vice Adm. J. L. Hall

Com N W Sector

Rear Adm. A. E. Smith

Com Alaskan Sea Fron

Rear Adm. C. A. F. Sprague

Com Haw Sea Fron

Com First Fleet

Vice Adm. A. D. Struble

Com Third Fleet

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Com Fifth Fleet CCORT

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Pacific Fleet - cont.

Com Seventh Fleet

C. T. F. 72

C. T. F. 77

Com. Nav FE

Chief of Staff

C. T. F. 95

Com Nav For Phil

Com Nav For Mar

Com Nav For Ryukyus

Com Fair West Coast

Com Fair Seattle

Com Fair Alameda

Com Fair Hawaii

Com Fair Japan

Com Fair Guam

Vice Adm. H. M. Martin

Rear Adm. T. H. Binford

Rear Adm. G. R. Henderson (1)

Vice Adm. C. T. Joy

Rear Adm. A. K. Morehouse

Rear Adm. R. E. Libby

Rear Adm. S. C. Ring

Rear Adm. E. W. Litch

Rear Adm. E. C. Even

Rear Adm. T. B. Williamson

Capt. R. C. Sutliffe

Capt. H. C. Doan

E. Naval Districts

1 Boston, Mass.

Rear Adm. L. H. Theband

3 New York, N.Y.

Rear Adm. W. S. Delany

h Philadelphia, Pa.

Rear Adm. J. H. Brown, Jr.

5 Norfolk, Va.

Potomac River Naval Command

Rear Adm. G. H. Fort

Severn River Naval Command

6 Charleston, S. C.

Rear Adm. G. B. Davis

(I) On 23 August Rear Admodel Perry Rag reported as Com Car Div 1 and "current ved For Release 2004/07/28 this Reported according to World War SEORET Co.

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II. Size

A. Personnel.

enlisted men; the Marine Corps 194,000. Under current plans the Navy will be increased to 805,000 by 30 June 1952. The Marine Corps - if legislation now pending becomes law - will be increased to not less than 300,000 or more than 400,000 officers and men, to provide four full-strength combat divisions, four full-strength air wings, and such other services as may be organic therein. If such legislation is not passed, Corps strength will be about 176,000 at the end of fiscal 1952.

B. Ships.

(1) At the beginning of August, 1951 the Navy had about 1050 vessels in commission or about to be activated. By major types the breakdown is as follows:

 $h \ BB^{(1)}$, 3 CVB, 10 CV⁽²⁾, 5 CVL, 13 CVE⁽³⁾, 13 CA, $h \ CL$, 188 DD-DDE-DDR⁽⁴⁾, 18 DE, and 83 SS. Of these the following ships have been taken from the Reserve Fleets since June, 1950:

3 BB New Jersey (AR)
Wisconsin (AR)
Towa (AR)

(2)One of these may be placed in a "Ready Reserve status."

(3) Of this number 11 have been positively identified as active. It is believed the Croatan and Gilbert Islands are being readied. These may be the 2 CVE's scheduled for "Ready Reserve status." At least 3 of these CVE's are operating with MSTS.

Training Ships. Statements in Congressional hearings indicate that combined DD/DE strength was to be 210 on June, 1951 instead of the 206 identified in this report. As the Uhlmann (DD687) and Wedderburn (DD684), former NRT ships, have joined the Fleet it is possible that others in this category have been similarly reallocated. By 30 June, 1952 combination of the constant of the proved Four Release 2004/07/28 2704-RDP79R00971A000300020002-0

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On August 25 the Icea will be recommissioned and probably placed in a standby condition.

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```
5 CV Antietam (PR)
                Princeton (PR)
               Shangri La (PR)
Tarawa (AR)
                Bon Homme Richard (PR)
         I CVL Monterey (AR)
         9 CVE Sitkoh Bay (PR)
                Bairoko (PR)
                Corregidor (AR)
                Kula Gulf (AR)
                Cape Esperance (PR)
                Rendova (PR)
                Siboney (AR)
Gilbert Islands (AR)
                Croatan (AR)
         4 CA Macon (AR)
                Bremerton (PR)
                Baltimore (PR)
                Los Angeles (PR)
               Bache (AR)
        L2 DD
                Charles J. Badger (PR)
                Baldwin (AR)
                Blue (PR)
                Bradford (PR)
                Braine (AR)
Brown (PR)
                Buck (PR)
                Caperton (AR)
                Cunningham (PR)
                Eaton (AR)
                Erben (PR)
                Evans (PR)
                Hancock (PR)
                Haynaworth (AR)
                Henley (AR)
                Hopewell (PR)
                Hubbard (PR)
                Hunt (PR)
                Ingersoll (AR)
                Jenkins (PR)
                Kidd (PR)
Laws (PR)
                McGowan (PR)
                Mclanahan (AR)
                MCNair (FR)
                Mullary (AR)
                O'Brien (PR)
                Picking (PR)
Approved For Release 2004/07 St Charle DP79R00971A000300020002-0
                ROSS (PR)
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Steinbel (PR) Stockhem (PR) Stormes (AR) The Sullivans (PR) Thomason (FR) Tingey (PR) Wadleigh (PR) Walke (PR) Yarnall (PR) 10 DE Howard D. Crow (AR) Frybarger (AR) Hanna (PR) Oliver Mitchell (PR) Douglas A. Munro (PR) Naifeh (PR) William Seiverling (PR) Walton (PR) Whitehurst (AR) Kenneth M. Willett (PR) 7 SS Cobia (AR) Tench (AR) Tructa (AR) Lionfish (PR) Carp (PR) Sea Devil (PR) Sterlet (PR)

DD - cont

About 1,00 vessels have been demothballed since July 1950. The average time for demothballing is given as 30 days, though small vessels—minesweepers, etc. - take less time. The Bairoko (CVELLS) was ordered demothballed on 12 September 1950 and was operating in the combat area before the end of November.

(2) Conversions.

(a) CV's. Two CV's (Oriskany and Essex) have been modified to handle larger planes and more aviation fuel. The flight deck on a converted carrier of this type has been strengthened to handle a plane of 55,000 lbs. gross weight, elevators have been enlarged, and more powerful catapults installed. Eight more of this class are now undergoing conversion as shown beloweproved For Release 2004/07/2006 FATRDP79R00971A000300020002-0

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CV Wisp Kearsarge Take Champlain Bennington Leyte Yorktown	Tard Brooklyn Puget Sound Newport News Brooklyn Norfolk Puget Sound Newport News	Date in C. June, 1949 February, 1950 August, 1950 October, 1951 March, 1951 Warch, 1951 c. April, 1951
<u>Handolph</u>	Brooklyn	c. April, 1951
Hornet	Newport News	c. May, 1951

Conversion time was originally estimated at 31 months, but it is probable that this has been shortened so that the Wasp should be ready to join the Fleet shortly. (Officers are already being assigned). It is planned to convert all CV's. In 1951-52 the Bon Homme Richard will be converted at Prooklyn, the Hancock and Lexington at Fuget Sound.

- (b) CVL. The Batasn had her flight and hanger decks strengthened to handle heavier planes. A similar conversion was scheduled for the Cabot but it is believed that this was not accomplished.
- (c) CVE. On the 1949 program 2 CVE's were scheduled for conversion. No details known but it is assumed that conversions will be similar to those of CV's and CVL's, and that the propeller shafts will be armored as a defense against sonic torpedoes.
- (d) CA/CL. The Northampton is being converted to a Task Fleet
 Command Ship (CLC) and will complete in December 1952. Two cruisers are
 being converted to guided missile ships. Probably the Oregon City (CA122)
 is the first of these. The conversion involves the elimination of some
 8" gun turrets. About 12 cruisers are being modified to improve their antiaircraft batteries.
- (e) DD/DE. Almost 200 destroyers have been or are being modified for ASW. Presumably these conversions will be along the lines of the Fletcher class conversions of 1948-49. This involves the elimination of Approved For Release 2004/07/28 CEARDP 79R00971A000300020002-0

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B turret and the substitution of a hedgehog, the conversion of Q and X turrets to twin mount 3"/50's, the elimination of one bank of torpedo tubes, the installation of new surface radar and of sonar gear, and the addition of a pole mainmast probably carrying DF equipment. Twelve fleet destroyers are being converted to radar pickets and a few DE's to DER's.

(f) SS. (See Section VI.)

(3) Construction. Few major units now under construction will join the fleet this year. The Norfolk (CLK-1), a hunter-killer ship also classified as a destroyer leader, may be in commission in 1952. The Timmerman (DD828) is expected to complete in July 1952, and the 4 Mitscher class destroyers may complete at the same time. Of the 6 fast-attack type submarines the Tang (563) and Trigger (564) were launched in June, and probably will not be in operation this year. The Trout (566) was launched late in August. Three submarine killers are under construction of which the SSK-1 was launched in March. Much emphasis is being placed on minecraft (1) and amphibious vessels.

C. Operational Units. The following major operational units have been identified and their locations (Atlantic or Pacific) indicated when known:

PhibGru 1(P), 2, 3, 4; CarDiv 1(P), 2, 3(P), 4, 5, 6(P), 14, 15, 16, 17(P); CruDiv 1(P), 2(A), 3(P), 4, 5(P); SubRon 1, 2, 3, 5, 6, 8; SubDiv 12, 21, 31, 62, 63, 81, 82; DesRon 1, 3, 4, 5(P), 6, 7, 8, 9, 11, 12(A), 13, 14, 16(A), 17, 18, 20, 28, 32, 34; DesDiv 12, 22(A), 32(P), 42, 51(P), 52, 61(A), 62, 71(P), 72(P), 81(A), 101(P), 102, 111(P), 112(P), 121(A), 122, 132, 142, 161(A), 162(A), 182(A), 201(A), 202, 322, 602; Escort DesRon 1, 2, 5; Escort DesDiv 21. Both a DesDiv and a DesHon now seem to have 4 ships.

NApproxed For Release 2004/07/28 Com Reproved 14000800020002000 = are now under construction.

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D. Aircraft. At the beginning of August, 1951 the Navy had about 8200 operating aircraft of all types. Of these about 1600 were for Reserve squadrons, though plans call for the Navy and Marine Corps Reserves to operate 2001 aircraft in 1951-52. For operational types and performance data see Appendix A.

E. Air Units. Combatant units are classified as CVHC's, CVG's, VF's, VA's, VC's, VS's, VP's, VMF's, and VMFB's.

- (1) CVEG. The composition of a CVEG seems to be fluid. Before the outbreak of the Korean War there were 3 of these units, each with about a hundred planes (probably 7 sixteen-plane squadrons). But it is apparent that detachments from composite squadrons are employed aboard the CVB's and probably the composition of a CVEG is an ad hoc arrangement for a particular mission.
- (2) CVG. The composition of a CVI is also flexible. The most usual is h VF's and h VA, with one or perhaps 2 VF's equipped with jets, but here, too, elements of VC's are used to replace squadrons normally with the air group. For example pilots from VC-3 (a night fighter squadron) and VC-61 (a photo squadron) operated with CAG 11 on the Philippine Sea for a time during the winter of 1950-51, apparently replacing VF 111 and 112.

As of August, 1951 the Navy had IL Carrier Air Groups (CVES and CVG) in commission.

- CAG 1 probably based at NAS, Jacksonville.
 - 2 returned to the west coast in June, 1951 and is being reconstituted.
 - 3 probably based at NAS, Quonsat Pt.
 - h probably based on the east coast.

5 - on the Essex in the eastern Pacific.

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6 - was the Hidway Air Group before Korea, but was shifted to

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the Pacific in 1950-51. May be back now.

- 7 probably on the east coast.
- 8 an all-Reserve group formed at Jacksonville consisting of VF 671, VF 742, VF 916, VF 921 and VA 859.
- 11 aboard the Antietam in the Pacific, August, 1951.
- 15 an all-Reserve group formed at Alameda consisting of VF 653, VF 731, VF 831, VF 837 and VA 728.
- 17 an east coast group, probably a CVEG.
- 19 in action off Korea last spring.
- 101 an all-Reserve group on the Boxer off Korea last spring.
- 102 an all-Reserve group formed at San Diego in the fall of 1950.

 VF 874 is the only squadron definitely identified as part of this group.
- (3) VF. Fighter squadrons have usually a 16-plane complement. There are presumably 56 or 59 VF squadrons in commission, of which 43 have been identified, (1) The type of plane used has been identified in only 16 cases (2), but it is probably that about 60% VF squadrons fly jets. Fighter squadrons with the 2 air groups now in process of formation are using USNR aircraft.
- (h) M. Attack squadrons have 16 plane complements. Fourteen are in commission, most of which fly AD's, with a few perhaps equipped with A2D's.
- (I)_{VF} 11, 12, 13, 14, 21, 22, 24, 31, 32, 33, 41, 43, 51, 53, 54, 61, 62, 63, 64, 65, 72, 73, 74, 111, 112, 113, 114, 151, 152, 171, 172, 174, 191, 192, 193, 653, 671, 721, 731, 742, 791, 874, 874.
- (2)_{F2H:} 11, 171, 172; F9F: 31, 61, 111, 112, 191, 721; FWU: 33, 43, 54,

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- (5) <u>VS</u>. In the spring of 1950 eight ASW VC's were designated VS, retaining their old numbers. There are 13 now in commission⁽¹⁾, and each probably still flying TBM's⁽²⁾. These squadrons will operate off CVE's and CVL's. For tactical employment in ASW see Section VI.
- (6) VC. VC squadrons are not "composite squadrons" in the sense that they have, as World War II comprons had, two types of planes. VC squadrons might better be designated "special purpose squadrons" as their function seems to be to detach small specially trained units (such as night fighters) for service with the fleet. No definite information regarding plane complements has been received but they are probably much larger than conventional squadrons. Ten have been identified as being in existence.

WC 3 is a night fighter squadron based at NAS, Moffett Field, whose function is to furnish night fighters to the Pacific Fleet. Between July, 1950 and April, 1951 pilots from this squadron, attached to CAG 11, flew F3D-1's off the Philippine Sea.

yo h is a night fighter squadron based at NAS, Atlantic City which furnishes nightfighters to the Atlantic Fleet. In the fall of 1950 pilots from this squadron were reported flying FZH-ZN's off the F.D.R.

VC 5, based at NAS, Norfolk, was flying AJ-10s off the Corel Sea in the fall of 1950. It is difficult to understand how planes of this type could be used in small detachments and perhaps VC 5 is designed to operate as a unit. It is perhaps part of Heavy Attack Wing 1 (see below p./2).

VC 6, presumably based on the east coast, flies P2V-3C's. It is

⁽I)Only 8 have been identified: VS 21, 22, 23, 24, 25(P), 26(A), 31(A) and 33. In July a Reserve VS squadron (unidentified but previously based at Floyd Bennett) was called to active duty.

^{(2)&}lt;sub>VS</sub> 21 and 25 are the only squadrous positively identified as having the Approxed For Release 2004/07/38 RPROP79R00971A000300020002-0

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a counterpart of VC 5 and may also be part of Heavy Attack Wing 1.

VC 7. No information regarding this squadron. Mentioned in orders in July, 1951.

VC 11, based at NAS, San Diego, was reported flying AD-1's early in 1950. See VC 12.

VC 12, based at NAS, Quonset Point, was reported flying AD3W's off the Salpan in July, 1950. This squadron, along with VC 11, is probably designed to furnish AEW detachments to the fleet.

VC 35. No information. Mentioned in orders, July, 1950.

VC 61 is the west coast photographic squadron. A detachment was aboard the Philippine Sea sometime between July 1950 and April 1951.

VC 62, based at NAS, Norfolk, is the east coast photographic outfit. Probably VC 61 and 62 have several types of planes.

- (7) Heavy Attack Wing 1. No specific information has been received regarding this unit. It is believed that it is a special force of AJ-1's and P2V-3C's capable of carrying the atomic bomb. Presumably units of HAW 1 will operate off the CVB's though AJ-1's can be handled by converted CV's. No information regarding the size of this force has been received except an indication that VC 5 and 6 are components. In August, 1951 Captain Paul A. Ramsay succeeded Rear Admiral Goldthwaite in command. Goldthwaite's seniority would indicate that HAW 1 rates as a major command.
- (8) Fleet Air Wings. Before the Korean War there were 6 Fleet Air Wings based as follows: FAWI, Guam; 2, Konahoe; 3, Coco Solo; h, Whidbey Island; 5, Norfolk; 11, San Diego. Two more have been created: FAW6, based in Japan, and FAW 11, location unknown.

Approved For Release 2004/07 The TDP79R00971A000300020002-0 types

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are now P2V-2's, P2V-3's, P2V-4's, PB4Y-2's, PBM's and P4M's (1). Thirty squadrons have been identified. (2)

VP 1 - P2V:s, NAS, Whidbey Island

2 - # B B

3 - " " Quonset Point

h = " Whidbey Island

5 ... " , Jacksonville

6 = " " , Barber's Point. This squadron returned to its base in February 1951 after 72 months in the Far East.

7 - PRV's, NAS, Quonset Point

8 - 11 11

9 - pply-2's, unlocated. Commissioned in 1951.

21 - PhM-10s, MAS, Patument River (temporary)

- 22 P2V=4*8, NAS, Barber*s Point. Had operated out of NAS; Naha, Okinawa.
- 23 PBLY-2:s, NAS, Mismi. An ASW and hurricane hunter squadron.
- PBhy-2B:s, east coast. A guided missile squadron. (The PBhy-2B carries 2 ASM-N2 Bats.)
 - 26 at NAS, Patuxent River early in 1951. This squadron was presumably checking out in new planes, perhaps Phil-1:s.
 - 28 PBLY-2:s, NAS, Barbar's Point.

31: - PRITE, Trinidad.

- 40 PBM's, commissioned early in 1951 and now operating in Korean waters.
- h2 PEM's, unlocated. Returned to U.S. in the spring of 1951.

(2) Approved For Release 2004/07/28: CIA-RDP79R00971A00030002000210 arings one might assume that either 2004/07/14 The planted for late 1951.

Only one squadron (VF 21) has been identified as a Fam outfit. Probably one more is now so equipped.

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- 15 PHM's, NAS, Pensacola.
- 46 PBM's, unlocated. Was in Korean waters operating with the Suisan in 1950.
- 47 PBM's, NAS, Sangley Point, P.I.
- 49 PEM's, NAS, Norfolk.
- 51 FB-lw's (B-17G's), NAAS, Miramar. An AEW squadron.
- 61 Recommissioned 20 January, 1951 at NAAS, Miramar. As a photo squadron VP 61 probably flies P2V's and PB4Y's.
- 731 PBM -5's, probably due to return from Far East.
- 772 PB4I-2's. Now in the Far East.
- 812 NAS, Kodiak.
- 818 NAS, Whidbey Island.
- 871 PPLY-2:9, NAS, Sands Point, Seattle.
- 931 P2V's, NAS, Whidbey Island in 1950. Probably now in Far East.
- (10) Marine Corps Aviation. The Marine Corps has 2 Air Wings; MAW 1 is now in Korea and MAW 2 is based at MCAS, Cherry Point though elements were transferred to Korea and attached to MAW 1. Each wing normally has 3 Group. There are 18 VMF and VMF (N) squadrons in commission⁽¹⁾, and perhaps 3 VMFB squadrons are now forming⁽²⁾, though these have not been identified. VMF squadrons have a complement of 2h planes and before Korea VMF(N) squadrons were either 12 or 2h. There is some evidence, however, that Marine night-fighter squadrons have been augmented. Naval Aviation News reports that VMF-513(N), the "Flying Nightmares", had a complement of 30 Fhu-5's, "the

⁽I) Five Reserve squadrons (VMF 213, 232, 234, 235, 321) have been called to active duty as units, and the pilots from at least 1 others have been placed on active duty with existing regular squadrons. Such was the case with VMF-143.

⁽²⁾ On Appropriations Subcommittee that the Nav Efficient this increase. (82181, p. 620).

rest F7F's." Operational planes are FLU's (predominant), F2H-2's, F9F-2B's, F7F-3N's, and F3D-1's. The following squadrons have been identified:

VMF(N)-114 - FLU-5N'S

VMF - 115 - F9F's

VMF(N) - 122 - F2H-2N's, MCAS, Cherry Point

VMF - 151 - NAS, Oakland (1950)

VMF - 211 - operated with CAG 7 aboard the Midway (1950)

VMF - 212 - Operated off the Bataan in Korean Waters, spring, 1951

VMF - 213 - Reserve squadron called to active duty.

VMF - 214 - The "Plack Sheep Squadron" operated on the Sicily, beginning in August, 1950 and was still aboard in May, 1951.

VMF - 216 - no information.

VMF - 223 - MCAS. Cherry Point.

VMF - 232 - FLU's. A reserve squadron called to active duty at MCAS, El Toro

VMF - 23h - Reserve Squadron called to active duty.

VMF - 235 - Fhus. A reserve squadron called to active duty at MCAS, El Toro.

VMF - 321 - One of the first Reserve squadrons called to active duty at MCAS, El Toro

VMF - 323 - Fluss. Operated on the Eadoong Strait during the Inchon landings.

VMF - 513(N) - Fluis and F7F's. In Korea, spring, 1951.

VMF - 531(N) - F7F's (1950)

VMF - 542(N) - F3D-10s. At MCAS El Toro in the spring of 195%

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(11) Helicopters: The Many has two helicopter squadrons: Hij-l at NAAS, Miramar and HU-2 at NAAS, Ellyson Field, Pensacola. essentially training squadrons to furnish helicopter pilots for the fleet. They have a complement of 20 sircraft and plans call for an output of 2h pilots a month(1). The Marines have at least one VMO helicopter squadron (VMO-6) which is now operating in Korea with 16 HO3S's and HLT's. It is planned to activate assault helicopter squadrons, 3 on the east coast and perhaps an equal number on the west coast. Only one (VMR 251 at MCAS, Cherry Point) has been identified. These squadrons will operate large troop-carrier types. Helicopters have been most spectacularly employed as rescue and evacuation craft. They have replaced destroyers as plane guards and VO/VS types on cruisers and battleships as naval They have proved valuable as minespotters and, while gunfire spotters. unproven in combat, are expected to be very useful in ASW.

(12) Lighter-than-Air. See Section VI.
III. Deployment.

A. Atlantic Fleet (active)

2 BB

Missouri Wisconsin

3 CVB

Coral Sea

Mass

Franklin D. Rosevelt

2 CV

Oriskany (converted) Tarawa

h CVL

Cabot Monterey Salpan

Wright

⁽¹⁾ In Approved Pot Release 2004/03125 EGP REPRESENTED BY AND 120 helicopters.

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7 CVE Corregidor Kula Gulf Palau Lindoro Siboney Gilbert Islands (in standby condition?) Croatan 7 CA Macon Newport News Rochester Albany Columbus Des Moines Salem S CL Roanoke Worcester 101 DD-DDE-DDR 6 DE 49 SS

- 1. Sixth Fleet. The Sixth Fleet, operating in the Mediterranean, consists of 1 CVB, 1 CV (Oriskany relieved CVL Saipan in August, 1951),

 3 CA's (Salem, Newport News, Des Moines), about 20 DD's, 1 SS and auxiliaries.

 Admiral Gardner's flagship is the Yount Olympus. The Sixth Fleet has no bases in the Mediterranean and is entirely supplied by its train.
- 2. Naval Forces, Middle East. No information has been gleaned about this command. It is probably a "shadow force" and when necessary receives units from other commands.
- 3. Naval Forces, Germany. This force patrols the Phine, and operated out of Karlsruhe, Mannheim, and Schierstein. Bremerhaven is the Naval Advance Base.

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B. Atlantic Fleet (reserve)

The Atlantic Reserve Fleet is based as follows: Boston, New London, New York, Philadelphia, Norfolk, Charleston, Green Cove Spring, Fla., and Orange, Texas.

In reserve there are 3 CV's (excluding those undergoing conversion), 28 CVE's, 4 fast BB's, 2 old EB's, 2 CB's, 6 CA's, 17 CL's, 91 DD's (this number undoubtedly reduced by undetected demothballing), 114 DE's, and 38 SS's.

C. Pacific Fleet (active)

2 HB New Jersey Towa (to be in standby condition)

8 cv

Boxer
Essex (converted)
Philippine Sea
Princeton
Valley Forge
Bon Homme Richard
Antistam
Shangri La (in standby condition?)

1 CVL

Bataan

6 CVE

Badoeng Strait
Bairoko
Cape Esperance
Rendova
Sicily
Sitkoh Bay

6 CA

Toledo Holena Tos Angeles St. Paul Baltimore (being demothballed) Bremerton (being demothballed)

2 CL
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87 DD-DDE-DDR (approximate)

12 DE (approximate)

27 PF(1)

34 SS

1. Seventh Fleet. The Seventh Fleet, commanded by Vice Admiral H. M. Martin, has as its major combat unit Task Force 77, commanded by Rear Admiral G. R. Henderson. At the beginning of August this force consisted of 1 BB (New Jersey), 3 CV's (Princeton, Boxer, with Bon Homme Richard in reserve), 1 or 2 cruisers, and about 3 destroyer divisions. It is indicated that DMS's are being extensively employed as DD's. There is no indication of the number of submarines with this force.

Task Force 72 is the detachment guarding Formosa. This force probably consists of destroyers and smaller craft and is occasionally reinforced by a cruiser. For example, the Manchester operated in TF 72 in September-October, 1950.

2. Naval Forces, Far East. Operating under this command (Vice Admiral C. T. Joy) are Task Force 95 (Blockade and Escort Force) and Task Force 90 (Amphibious Force). The United States vessels in TF 95 consist of 1 CVE (the Sicily relieved CVL Fataen in June), 1 or 2 cruisers, and about 2 destroyer divisions. Task Force 90 would, of course, draw upon TF 77 and TF 95 for its major combatant vessels.

3. Naval Forces, Philippines. This force probably contains only minor units such as minesweepers, perhaps a few destroyers and a submarine or two.

VP 47 is based at Sangley Point. Rear Admiral S. C. Ring is in command.

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ADDENDUM

On August 23d the Essex, with CAG 5 aboard, was reported in action off Korea as part of TF 77. Rear Admiral John Perry was reported as ComCarDiv 1 and "current" CTF 77. It may be that Perry and Henderson are rotating this command according to World War II practice. The Boxer and Bon Homme Richard remain off Korea, the Princeton returned to the States.

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4. Naval Forces, Marianas. This force, under the command of Rear Admiral E. W. Litch, is not known to contain any combatant vessels. Fleet Air Wing 1, based on Guam, is under this command and presumably operates at least one patrol squadron.

5. Naval Forces, Ryukyus. This force also is probably limited to patrol squadrons. VP 22 operated out of Naha, Okinawa early last spring. The name of the commanding officer is not known.

D. Pacific Fleet (reserve). The Pacific Reserve Fleet is based at Bremerton, Tacoma, Tongue Point, San Francisco, Stockton, Alameda, Mare Island, Long Beach, San Pedro and San Diego.

In reserve there are h CV's (excluding those undergoing conversion),

3 CVL's, 25 CVE's, 2 fast BB's, 3 old BB's, 6 CA's, 21 CL's, 96 DD's (this number probably reduced by undetected demothballing), 91 DE's, and h5 submarines.

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IV. Bases.

During the past year and a half the Navy has concentrated on the improvement and reactivation of existing naval and air bases rather than the construction of new bases. In September, 1950 the Navy announced its intention of constructing a new fleet base in the "Atlantic area" at a cost of \$23,000,000. No information regarding location has been released, but the smallness of the sum would seem to indicate that existing facilities at some base are being improved. It will be ready in 1952-53. In August, 1950 the Navy asked for funds for the construction of 3 new air bases somewhere in the far east, and in July, 1951 Admiral Thurber requested funds for h overseas air bases, presumably in the Atlantic, but the funds apparently were for the modernization of existing airfields. One of these bases is probably located in Iceland. In July, the late Admiral Sherman was reported to have discussed with Franco the American use of the following Spanish naval bases: Ferrol, Cadiz, Valencia, Barcelona, Cartagena, Santa Cruz, and one in Spanish Morocco.

Improvements in naval aviation facilities are directed primarily at providing air fields capable of handling jets. In December, 1950

Admiral Thurber testified that the Navy had only 2 fields - one in the U.S., the other at Pearl Harbor - with "adequate lengths and widths of runways." Consequently runways at several fields are being widened to 200 feet, lengthened to 8000 feet, and are being strengthened and resurfaced to withstand jet operations. The Navy is putting in operation 6" master jet fields", 3 on the east coast (Brunswick, He., Oceana, Va., Cecil Field, Fls.) and 3 on the west coast (Miramar, Cal., Moffett Field, Cal., Whidbey Island, Wash.) The Marine Corps master jet fields will be at

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Cherry Point, N. C., and El Toro, Cal.

A. Naval Bases and Stations

1. Continental

a. East Coast (major)

Boston
Newport
New London
New York-Brooklyn
Philadelphia
Norfolk
Charleston
Jacksonville(1)
Key West

b. West Coast (major)

Puget Sound San Francisco Long Beach San Diego

2. Extra-continental

a) Atlantic

Argentia, N.F.
Quantanamo Bay, Cuba
San Juan, F.R.
Trinidad, B.W.I.
Cristobal, C.Z.
Bramerhaven, Germany
Karlsruhe,
Mannheim,
Schierstein.

b) Pacific

Atto, Alaska
Kodiak, "
Adak, "
Pearl Harbor, T.H.
Ealboa, C.Z.
Tutuila, Samoa
Kwajalein, Marshall Islanda
Guam, Marianas
Subic Bay, P.T.
Okinawa, Ryukyus

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B. Haval Air Stations and Facilities.

1. Continental

Designation	Cocation	RUNAL I	Remarks
	Alabama		
NAS	Birmingham	3 ~ 5700	Reserves
	Arisons	•	
nap	Litchfield Park	1 - 6000	Storage field
	California		
NAS	Alameda	5 ~ 5300	Jet fuel; being improved; Reserves
OLF	Camp Pendleton	1 - 64,00	
MCAIS	Camp Pendleton Strip #2	1 - 900	
naas	Crows Landing	2 - 7000	To be reopened
NAAS	El Centro	5 - 5800	Jet fuel
MCAS	El Toro, Sente Ana	5 - 7200	GUA; jet fuel; to be improved
NAF	Inyokern	3 - 9000	Jet fuel; to be improved
nas	los Alamitos	4 - 6000	GCA; limited jet fuel; to be improved
NAAS	Miramar	2 6000	GCA; Jet fuel; to be improved
nas	Moffett, Mountain View	2 - 7500	GCA; to be improved
MCALS	Mojave		Building
	Monterey	2 - 5000	
ean	Cakland	lı - 6200	Jet fuel; to be improved; reserves
nas	Point Mugu	1 - 5500	Jet fuel; being improved; guided missile center
NAS	San Diego	s = 6000	Jet fuel; GCA; being improved
MCAF-ITA	Santa Ana	1 - 3000	For LTA and helicopters
	Santa Barbara	5 - 5100	I

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Designation	Location	Rumays	Romarks
	Califo - cont		
MCALS	Santa Maria		Puilding
3	Colorado		•
nas	Denver	2 - 8000	Reserves
	Do Cris		
NAS	Anacostia	3 - 5000	Reserves
	Florida		
NAAS	Bronson Pensacola	h - 1000	Reopened
Maas	Cecil Field Jacksonville	h - 5200	Jet 3 fuel; being improved
CLF	Chocten	3 - 4,000	
' NAAS	Bagdad Corry Field	9 - 17500	Being improved
OLF	Pensacola Ellyson Pensacola	8 3600	
OLF	Fort Barrancas		
Nas	Jacksonville	ls - 5800	Jet 3 fuel; being improved
NAS	Key West	3 ~ 7000	GCA; being improved
OLF	Green Cove Spgs	ų - 5100	GCA
OLF	Mertin Field		Being improved
ras	Mami	5 7400	Reserves
CLF	Opalocka		
NAS	Pensacola	5 ~ 2800	Being improved
NAAS	Sanford	4 - 6000	det 3 fuel; being improved
NAAS	Saufley	h = 6200	GCA; being improved
OLF	Pensacola Spencer Pace	4 = 1800	
naas	race Whiting Milton	h = 6000	jet fuel; being improved

Georgia

Approved For Release 2004/07/28 FOR P79R00971A000300020002-0 Reserves 600 Being improved

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Approved	For Release 2004/07/28 :	CIA-RDP79R009	971A000300020002-0
esignation	Location Illinois	Runnava	Remarks
	Arlington Hghta	4 - 2900	
nas	Glenview	5 - 6300	GCA; being improved; reserves
	Kansas		
NAS	Hutchinson	4 - 7000	Reserves
NAS	Olathe	3 - 5300	GGA; jet fuel; reserves
	Iouisiana	·	
NAS	New Orleans	3 - 3400	Reserves
	Maine		
nap	Brunswick	3 - 6000	Reopened; being improved
NAIS	Sanford	3 - 6000	Being improved
	Maryland		
NAS	Patuxent	h = 9700	GC&; being improved
NALS	Webster Field Beachville	3 ~ 5000	Being reactivated
	Wissachusette		
naf	S. Weymouth	ls - 1,100	To be reactivated for Reserves
nas	Squantum Boston	3 = 1,100	and regular LTA GCA; for Reserves and regular LTA
nas	Michigan Grossa Ile Detroit	3 - h700	GCA; jet fuel; to be improved;
MAS	Minnesota Minnespolis	5 - 6500	GCA; being improved; reserved
NAS	Missouri St. Touis	3 - 6000	ACA; to be improved; Reserves
OLF	Vichy	3 - 5500	
	Nebrasko		
	IAncolm	5 - 7100	Jet 3 fual
	Nevada		
OLF Approved	Fallon For Release 2004/07/28 3	OF TOOS PROOS	971A000300020002-0
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Good withou	Westilon	MUNEANS	Remarks
	Mos. Jersey		
FLARE	Admids City	h = 5100	GCA; Jet 3 fuel; to be improved
NAS	Lakehurst	3 - 3800	To be improved; LTA
	New York		
NAS	Floyd Bennett Field	ld L = 5500	GCA; jet fuel; Reserves
yas	Niagara Falls	5 - 5500	To be improved; Reserves
	North Carolina		•
Total Am	where the transfer of the particles of	a Long	
OIR	Bogue Swansbore	3 - 4000	
MOAS	Cherry Point	8 - 7200	GCA; jet 3 fuel; to be
CLF	Edenton	1 - 7100	improved.
na r -lita	Weeksville	2 ~ 3200	ITA
Mill	Wilmington		Building
olf	Paterfield Point Jacksonville	3 ~ 5000	LTA; helicopters
	Ohio		
nas	Akron	u - li400	Reserves
ras	Columbis	4 = 5000	GCA; Reserves
	Pennsylvania		
nas	Johnsville	3 - 4600	Being improved; Naval Avia-
Neas	Mustin Philadelphia	3 - 5200	tion Development Center Jet fuel
MAS	Millos Grove	3 - 4000	GCA; to be improved; Reserves
	Rhode Island		
HAAS	Charlestown	3 - 5800	
nas	Quonset Point Providence	h = 6000	GCA; being improved; jet fuel.
	Bouth Caroline		2
ELLS.	Beenfort,		•

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Designation	Accadion	Ruinay 8	Reneras
	Hough Carolina -cv.		
OLF	Parris Island	li = 600 0	
	Temessee		
NAS	Memphis	k = 5000	GCA; Reserves
	Texas		
NAAS	Cabaniss	h - 5000	
MAAS	Chase Field		
NAS	Corpus (hristi	ų = 5800	GCA; jet fuol
nas	Dallas Hen s ley	3 7500	GCA; Reserves
WAAS	Kingsville	<u>l</u> ; - 6200	Reopened; to be improved
	Virginia		
naf	Chincotasgue	3 - 6000	
naf	Dahlgren	3 - 1,000	
NAS	Norfolk, Chambers East	3 - 2600 3 - 1300	GUA, Jet fuel; being improved
NAAS	Oceans	4 - 6000	Reopensed; to be improved
MAS	Quantico	5 - 7500	
	neshnesome		
NAS	Seatile	5 - 7000	GCA; Reserves
	Sholton, Meson Co.	2 5300	
NAS	Spokane	3 - 8200	jot fuel; Reserves
Pag	Whidbey Island Oak Harbor	2 ~ 7300	GCA; to be improved

2. Extra-continental

a. Atlantic

Iceland (exact location unknown)

NAS, Argentia, N.F.

NAS, Guantanamo Bay, Cuba

MAS, San Juan, P. R.

WAS, Trinidad, B.W.I.

WAS, Coco Solo, C.Z.

NAS, Port Lyautey, Fr. Mor.

b. Pacific

NAS, Adek, Aleska

NAS, Kodiak, "

MAS, Atsuki, Japan

MAF, Yokosuka, "

MAF, Naha, Okluawa

MAS, Sangley Point, Pale

NAS, Agana, Guam

NAS, Kwajalein, Marshall Islands

NAF(?), Wake Island

NAF(?), Midway Island

NAS, Barber's Point, T.H.

NAS, Kaneohe, T.H. (1)

NAS, Ford Island, T.H.

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⁽I)Kaneohe is to be reactivated as a MACS.

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V. Wespons.

A. Guided Missiles. The Navy's guided missile program has high priority, particularly that part of the program pertaining to air defense. At present 3 vessels are equipped to launch guided missiles: the Morton Sound (AV 11), the Cusk (SSC3h8), and the Carbonero (SSC337). Modification is apparently simple. Two cruisers are now under conversion to guided missile ships. Despite the high priority of the program guided missiles are still in the test and evaluation stage, and statements in Congressional hearings indicate that no substantial quantity of guided missiles will be available for combat use this year. (1) For details see the general statement on Weapons in this report.

B. Conventional Shipborne Weapons. Developments in naval gunnery have been pointed toward automatic fire control and faster rates of fire. The three heavy cruisers of the Des Moines class were the first to have all guns (including the main 8" batteries) fully sutomatic. The fire from the main batteries is reported as h times faster than the old rate, or about 8 rounds per gun per minute. Cartridge cases are used instead of conventional big-gun loadings. New 3" 50 cal. A/A guns are being placed aboard many ships. These guns have rader control which automatically picks up the aircraft or missile, computes, makes settings, and opens fire. These guns fire at the rate of 50 rounds per gun per minute. Admiral Schoeffel, testifying before a Congressional committee on May 1h, 1951, speaks of the 3-inch-70 and the 5-inch-5h rapid fire guns as "the two latest anti-aircraft guns we have today," but no information has been

⁽¹⁾One squadron (VP2h) is believed to be still equipped with ASM-N-2 "Bats," but the "Bat's" combat effectiveness is highly suspect.

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received concerning production or installations.

G. Aircraft Armament. There have been few new developments in this field. On fighter planes 20 mm. cannon are replacing or augmenting 50 cal. machine gums, and much emphasis is being placed on rockets. The Navy now has 5 types: the 11.75" Tiny Tim, the 5" HVAR Holy Moses, the 3.5", the 2.75" Mighty Mouse, and the newly developed 6.5" Ram anti-tank rocket. All but the Mighty Mouse (an air-to-air missile) have been tested in combat. Little information about bombs has been received. The effectiveness of the napalm bomb has been demonstrated in Korea (the Navy uses belly tanks as containers) and redesigned bombs for jet aircraft have apparently reached the fleet. For details see the general weapons section of this report.

D. Mines and Torpedoes. In this field security is excellent. Only one technical reference to mines was found - an account of the magnetic mine fuse developed during World War II (Bell Laboratories Record, July, 1947). Scattered references to torpedoes have been found, such as Admiral Schoeffel's statement that a new sonic torpedo will be the Navy's "Sunday punch" against submarines, but no performance details have been discovered. about mine countermeasures is also meager. Indications are that new type mines are causing the Navy concern. Increase in minesweepers has been proportionately greater than in any other type of vessel, and at the beginning of the Korean War the Navy was forced to lease Japanese fishing boats to use as sweepers. In May, 1951 Admiral Sherman stated that the Navy had "learned a great many lessons" operating against Russian-type mines off Korea, but few details of countermeasures are available. Heliocopters have proved successful in mine spotting as have PBM's notably those of VP42. Building under the 1950 program are 2 "countermeasures approved for tengence 2004/07/28 Clasting 1997 180003000200020 type

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VI. Undersea Warfare

In 1966 the Navy created the Undersea Warfare Division (Op. 31, under DCNO (Operations)) to coordinate operations and development in the fields of submarine warfare, ASW, wine warfare, and harbor defense.

A. Anti-Submarine Warfare.

High officials in the Navy Department have frequently stated that ASW has "Number One Priority" in all naval planning and development.

Emphasis upon the program was greatly increased with the appointment of Admiral Sherman as CNO in November 1949. He recalled Vice Admiral F. S. Low to direct a special survey of the ASW problem, as a result of which the Defense Department increased its appropriation for ASW from \$40 million to approximately \$100 million early in 1950. Since that time high appropriations continue to be made for work in this field, especially for such items as electronics research and the conversion of DD's to DDE's.

Coccasionally announcements of a vague nature are made about spectacular developments, typical of which was the statement by the Director of Defense Mobilization that surface craft "are being equipped with detection devices 10 times as effective as those used in world War II."

Hints concerning improved organization are given by such items as the appropriation of funds for a combined ASW plot and administration building at GinC Lant Headquarters, Norfolk. The frequent mention of the Surface AS Development Detachment at Key West and the Flest Soner Schools at Key West and San Diego indicate that tactical research and training are in continual progress. In particulars, however, a high degree of security has

⁽¹⁾ Report to the President, No. 1, 1 April, 1951, p. 8.
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been maintained. Significant performance figures for weapons and detection devices never appear, nor can they be inferred directly from such information as has been released. Nothing in the public press reveals any new departures in basic research.

The impressions received from public information are (1) that the active fleet is at present provided essentially with the same equipment as was used at the end of World War II⁽¹⁾, (2) that all important new developments are along the lines of the more effective use of old equipment, and (3) that basic research is concentrated upon improving the devices based on the old principles for the detection and destruction of submarines rather than upon the discovery and exploitation of any new principles. In view of these impressions, the greatest importance attaches to current information regarding the ships and aircraft, weapons and detection devices now known to be employed for ASW.

1. Ships.

a. DD's, DDE's, and DE's. Great emphasis is now placed upon the use of larger and faster surface vessels of these types for ASW. Only a few DE's, approximately 20, are in commission, since they are not capable of sufficient speed to cope with newest types of submarine. In April 1950 the Navy asked for money to convert but 3 DE's for ASW, whereas funds were requested to convert over 100 DD's of the 692 Class to DDE's. At present it is believed that approximately 200 DD's of the Gearing, Fletcher and Summer types have been or are being modified for this purpose.

Conversion for ASW involves replacement of "B" turnet with a hedgehog;

⁽¹⁾ That this is true of electronic equipment was stated by Capt. W. H. Biltz, assistant chief Bu Ships (electronics), before a subcommittee of the House of Representatives Committee on Appropriations on 10 May 1951.

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replacement of "Q" and "X" turrets with twin-mount 3"/50's; elimination of one bank of torpedo tubes; installation of squids amidships and aft, new surface radar and sonar gear; and the addition of a pole mainmast, probably to be employed as a DF and/or sono-buoy antenna.

b. CVL's and CVE's. The Navy plans to use hunter-killer groups consisting of a carrier and escorts as in World War II. CVE's of the Sicily class, strengthened to handle heavier planes, will be employed, and to fill the need for greater speed the Bataan has been refitted as a CVI(K). The Cabot is slated for similar conversion. From these carriers will operate the new VS squadrons flying Grumman Guardians.

Hunter-killer groups will protect convoys in the conventional fashion. Antisubmarine protection of task forces will be given by escorts and attack planes from the carriers. Under the peculiar conditions of the Korean war, patrol planes have borne the major share of protecting naval units.

construction of three 765-ton SSK:s (Kl, K2, K3). The K-l was launched by the Electric Boat Company, Groton, Conn., on 2 March 1951. The other two will come off the ways of the Mare Island Naval Shipyard. In 1950 the 1,560-ton Grouper was converted to an SSK (large). The Ray and Redfin are undergoing conversion, and four others of the Cato-Balao class are scheduled for similar modification.

On the subject of these types security has been very tight. Not even pictures have been released. It can only be surmised that SSK's will carry long-range soner gear and surface radar, and be equipped with sonic torpedoes as a major weapon.

SSK's can be used most effectively, not on the open sea, but in restriction of the open sea, but in restriction of the constant of the submarine of the submarine

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traffic will be relatively heavy. Vice Admiral Lockwood has publicly stated that U. S. strategy calls for sending atomic-powered subs off the Russians, ports to destroy their undersea craft coming and going. (1) It is possible also that guided-missile subs, like the Cusk, may be used to raid enemy submarine bases.

d. Experimental CL(K). Under construction is the Norfolk, built on a hull similar to the San Diego class, and designed as a "killer ship." Building of one other of this type has been deferred. Nothing is known of the characteristics and armament of the CL(K), but its virtues for this work will be speed equal to a fast DD, greater protection, longer range, and heavier armament. It can be the most effective surface striking arm of a hunter-killer group.

2. Aircraft.

a. Patrol Planes.

The new patrol planes especially designed for ASW are the P2V and the P5M flying boat.

The latest models of the P2V have a range of over 1,000 miles loaded, maximum speed of about 350k, cruising speed of 170k. They can carry 8,000-10,000 lb. of depth charges and/or torpedoes, 16x5" rockets. Their armament consists of 6x20 mm. cannon fixed in nose, 2x.50 cal. flexible machine guns in the top turret, the same in the power tail turret. They are said to be equipped with a new type radar capable of spotting a snorkel at a distance of "several miles," but radar range will vary greatly with the condition of the sea. The P2V-1; carries M.A.D. P2V's have taken off GVB's, but it is presumed that these planes will be used for ASW work

⁽¹⁾Saturday Evening Post, 22 July, 1950, p. 118.
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from land bases.

The P5M, now being developed, has a range of over 3,000 miles, a maximum speed of 270k, cruising speed of 140k. It can carry about 12,000 lbs. of depth charges and/or torpedoes. Rockets are fitted in wings, and .50 cal. machine guns in nose, mid-upper, and tail turrets. Its radar is probably the same as in the P2V. (1)

In addition to the P2V's, VP squadrons are now flying such older types as the PBhY-2, PBM, and PhM. P5M's are expected in the fleet next year. It is conceivable that the XP5Y may be used for ASW, but only 12 are on order. Their range is reported as 5000 miles, maximum speed as 390k. Nothing is known of their armament.

b. Carrier Planes.

The size and weight of the equipment necessary for effective AS work has obliged the Navy to create hunter-killer teams of carrier aircraft, one carrying detection gear, the other armament. The plane especially developed for this purpose is the much publicized Grumman Guardian, heaviest of single-engine carrier planes. The AF-2W, the search member of the team, carries under its fuselage a "guppy" containing radar by means of which a sub is to be detected and tracked. The AF-2S, the attack plane, carries rockets, depth charges, and torpedoes, and some models are equipped with a searchlight and APS-30 radar under the wings

⁽¹⁾Popular Science, March 1950, p. 103, states "A legitimate guess is that this aircraft would be able to squat on the wet almost anywhere and listen for subs." This sounds like sheer nonsense. A flying boat on the water cannot attack a sub if detected. Any plane can listen better in the air with sonobuoys or M.A.D. than it could with any sirborne device on the water.

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for homing on a sub. Maximum speed of these planes is 350k at sea level.

No other specific information on its flight characteristics has been re
leased. It is said to be in large-scale production at Bethpage, N.Y.

The functions of the AF-2W can be performed by the AD-3W, which has been delivered to the fleet in large numbers. Other attack planes like the TBM, AD, and A2D, can do the work of the AF-2S. But the plan is to equip all VS squadrons with Guardians.

c. Lighter-than-Air.

The Navy plans to use blimps extensively for AS patrol. This becomes feasible now that it is presumed that subs will run snorkeling in dangerous waters rather than stay surfaced to fight off enemy aircraft.

In 1950 two airship squadrons of 11 K-type blimps each were operating, ZP-1 from Weeksville, ZP-2 from Lakehurst. ZP-3 was commissioned at Lakehurst on 28 Sept. 1950. Four other K-types were assigned to reserve units. Of the 130-odd K-types built in World War II it is presumed that a large number are in storage.

Four M-types are operational. Four N-types are under construction, and 18 more are on order. The few GT- and I-types on hand are not combatant airships, being used only for experiment. All blimps are built by Goodyear.

All three combatant types have a maximum speed of 75k. K-type can remain aloft 2h hours. One M-type has set a record of 170 hours in the air. No endurance figure for the N-type is available.

The Navy has experimented successfully with the operation of blimps off CVE's, but it is probable that they will operate mostly from shore bases. The primary function of the blimp is to detect and track subs, calling in heavier-than-air craft and surface vessels to make the kill.

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charges, and perhaps a sonic torpedo. The blimp's major cargo is detection equipment: long-range radar, MAD, and sono-buoys.

d. Helicopters.

In 1950 the Navy sponsored a competition to design an AS helicopter. Bell was awarded a \$5 million contract to construct three experimental models, designated XHSI-1. As far as is known these helicopters have not yet reached the testing stage. They are designed to carry radar, sono-buoys, depth-charges, and "recoil-less bazookas." (1)

The tactical function of the helicopter is not known, but it is conjectured that it can best be used as close AS cover for task forces and convoys, perhaps also for inshore patrol.

3. Weapons.

a. Depth-Charges.

Standard equipment for DD's, DDE's, and DE's is the Mark-9 depth charge, torpex-loaded, weighing 600 lbs. Hydrostatic fuzes can be set for depths to approximately 400 feet. Depth-charges are projected from sterm-racks and K-guns in a concentrated pattern about a contact.

Mark-9's are lethal to a sub within about 35 feet.

Aircraft may carry 250 lb. or 325/torpex-loaded depth charges. They are dropped in a "stick" diagonally across the sub's path. Standard setting for hydrostatic fuzes is 25 feet. Aerial depth charges are lethal within 10 to 15 feet of the pressure hull.

b. Forward-Firing Weapons.

DDE's and DE's carry on their forward decks a hedgehog, which is a multiple spigot mortar that fires 2h contact-fused projectiles in a

American Helicopter, July 1950, p. 24. Approved for Release 2004/07/28: CIA-RDP APPROPRIES A000300020002-0

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pattern approximately 200 yards over the bow. The projectiles contain

32 lbs. of torpex. They are lethal on contact.

Squids, fitted amidships and aft, are three-barreled mortars firing minol-loaded projectiles, also lethal on contact.

The mousetrap is a variant of the hedgehog, firing the same projectiles from open rails. Mousetraps were designed for PC's, SC's, and lighter AS craft which cannot withstand the weight and recoil of a hedgehog. The rails are mounted in two sets of four, one above the other. They cannot be swiveled, as can the hedgehog and squid, but must be aimed by the course of the boat.

It is believed that experiments have been made with VT fuzes on forward-first missiles, but with what success is not known. In May 1951 Admiral Schoeffel announced the development of a rapid-fire shipborne "rocket launcher" which is probably an improvement on the hedgehog-mousetrap device. The underwater characteristics of the projectile are reported to have been greatly improved.

c. Sonic Torpedoes.

Toward the end of World War II Naval aircraft employed a sonic torpedo with great success against German U-boats. This weapon located the sub by the sound of its propellers. Nothing is known about the development of the torpedo except general reports that models have now been created for use by surface craft and SSK's. Admiral Schoeffel announces that this weapon is the Navy's "Sunday punch" against a submerged submarine.

de Airborne Rockets.

The 3.5" and 5" solid shot rockets are standard equipment on
AS aircraft. Four to eight may be carried in zero-length launchers under
each wing. They may be fired in various combinations. The pilot will
normally release them in salvoes of two or four as he moves in on the target.
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The 12" Tiny Tim rocket with an explosive head may be employed in
ASW, but the solid shot head has proved highly effective in tearing holes
through a pressure hull. It is said that the trajectory and underwater
carriage of the 3.5" and 5" rockets have been greatly improved. The 3.5"
rocket has a lethal underwater range of 130: at a 15° angle of entrance.

e. Mines.

The Navy plans to mine areas likely to be extensively used by enemy undersea craft. In enemy waters mining will doubtless be carried out primarily by submarines, by aircraft when the area is within patrol range. The depth of water, type of bottom, etc. will determine whether contact, acoustic, or magnetic types are employed.

4. Detection Devices.

a. Sonar.

Sonar gear is standard equipment on all AS surface vessels. This device, which detects a submarine by echo-ranging beneath the surface, was highly effective in World War II. No data has been published on the effective range of sonar, but it is known that much depends upon the training and alertness of the operator.

This equipment is very expensive and takes 15 to 20 months to procure. The fleet is still equipped with World War II sonar, much of which has been made obsolete by the range of new torpedoes.

b. Sono-Buoys.

The sono-buoy is a device equipped with a hydrophone and VHF transmitter. When dropped into the water, the buoy's transmitter broadcasts the sounds picked up by the hydrophone. Range depends upon speed of sub, intensity of other underwater noises. This device was used effectively by aircraft in Norld War II. One buoy was dropped nearest the point at which a sub was thought to be. Four others were dropped about in Approved For Release 2004/07/28; IA-ROPT R00971A000300020002-0 the

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pilot could track the submerged craft as it neared or veered away from the five points. If the sub moved out of the pattern, other buoys could be dropped around its path.

Planes can now carry 12 or more sonobuoys. It is reported they are being used by surface craft as well.

c. Radar.

All AS ships and planes carry one or another type of radar.

Security has been very tight on radar performance. No figures have ever been published regarding their range against surfaced subs or snorkels, though claims have been made that the heavy gear in the P2V-4 can pick up a snorkel at a distance of "several miles." Radar is the primary search device of the aircraft and is used by attack planes for homing on the target. The effectiveness of aircraft in ASW is in direct ratio to the effectiveness of radar.

d. Direction Finders.

In world War II shore-based direction finders were used to pick up the radio transmissions of enemy U-boats, some of which were picked up at a distance of 9,000 miles. Hunter-killer groups could be vectored to the vicinity in which the sub was detected. DF was also later installed on surface craft to pick up transmissions at shorter range. The usual procedure was to have antennae on the CVE of a task group and on one or more of the escorts, from which a "fix" could be taken on a "talking" sub.

DF was less effective as German U-boats learned to keep as silent as possible, but it is presumed that both shore- and ship-based equipment will continue in use.

e. Magnetic Airborne Detector.

A device carried on low-flying blimps and patrol planes operating in restricted waters, which /07/28 CIA_RDR79R00971A00030002000218 turbance

that the device cannot spot a sub running much below periscope depth.

it makes in a magnetic field. Its range is not known, but it is believed

5. Conclusions.

In a hearing of subcommittee of the House Armed Services Committee in Dec. 1950, Rep. McMahon suggested that the Navy had progressed as far toward a solution of the anti-submarine problem as a man who, having left Washington for New York, had reached Philadelphia. In the light of the information assembled above, it would seem that the progress made consisted primarily in the development of (1) ships, (2) aircraft, and (3) weapons to deal adequately with enemy submarines, and (4) the beginning of the procedures necessary to procure them.

Yet remaining to be done are to (1) step up procurement of DDE's and aircraft to a point where U.S. and allied AS forces are adequate to deal with enemy submarines in all the oceans of the world, and (2) improve detection devices so that the odds on locating snorkeling and submerged craft are far better than they are now. Any potential enemy who was acquainted with the history of ASW in NWII would know that two of the most important factors contributing to the success of the United Nations were (a) the American improvement to great effectiveness of devices invented for the most part by America's allies, and (b) the procurement of ships and aircraft in such great numbers that overwhelming force could be brought to bear against enemy underseas operations everywhere. At present a potential enemy might well calculate he did not have to deal with either of these factors. If the boasts made about new detection devices are to be believed, it is clear that these devices are still in the experimental stage. only 30 VP, 13 VS, and 3 ZP squadrons, American naval air forces are obviously not great enough, and even when the number of DDE's reaches 200 it is doubtful.

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tions which they may be called upon to perform. (1) It is suggested, therefore, that enemy strategy and tactics would at first be designed primarily to take advantage of these weaknesses.

B. Submarines.

The total number of SS capable of combat action is 167, of which 82 are in the reserve fleets. There are 26 non-operational training boats. The total of 85 SS's in the active fleet as of 30 June 1951 (of which 83 have been identified) break down into the following categories:

19 SS (standard attack types)

23 SS (guppy conversions)

4 SSR

2 SSR (Arctic)

1 SSP

1 ASSP

1 ASSA

1 SSK

1 \$50

2 SSG

85

Under process of conversion from the reserve fleet are 28, which break down into the following categories:

16 SS (guppy conversions)

l SSR

1 SSG

7 SSK (large)

28

There are at present 13 new submarines under construction, though in

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various stages of completion, which break down into the following categories:

3 SSK (Kl, K2, K.)

6 SS (Tang type)

1 SST

1 SSN

1 SS (250 ton)

1 SSX

13

According to testimony given by Admiral Sherman in the spring of 1951, the total number of submarines in the active fleet will be 100 by 30 June, 1952, presumably by conversion, new construction and demothballing.

If the numbers under the various designations indicate the emphasis which the Navy is putting upon the different functions which a submarine may be called upon to perform, then evidently the most important are (1) attack, (2) anti-submarine warfare, (3) picket duty, and (h) guided-missile launching.

For the function of attack, the most important development is the Guppy. This modification involves streamlining of the deck housing, removal of deck guns, addition of a snorkel, improved engines. (1) Guppies are said to be capable of 17k underwater for 1/2 hour, 12k for 3 to 4 hours. On a test run the SS Pickerel ran submerged snorkeling from Hong Kong to Pearl Harbor, 5200 miles in 21 days and 1 hour, at an average speed of 10.3k.

Guppy conversions and the Tang class are equipped with the orthodox diesel-electric power plant. Battery-power capacity has been greatly

⁽¹⁾ The new Tang class includes all the improved characteristics of the converted Guppy. Admiral Sherman testified in Apr. 1950 that all subswill eventually be equipped with shorted process 1950 that all subsactive Approved For Release 2004/07/28 That size.

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Approved For Release 2004/0728 the RDP79R0097140003000200029 has developed a new 16-cylinder, 2-cycle engine which is much lighter and smaller than earlier sub diesels. The Navy is experimenting with the Kreislauf closed-cycle diesel and also with the Walter hydrogen-peroxide engine, but neither are yet employed in any subs in the active fleet. The first SSN has been launched at Groton, and according to official releases, the Navy hopes for much from the nuclear-fission engine, but this boat is not yet operational.

On the development of the SSK, see Section VI, Al, c of this report.

The SSR is a standard attack submarine with reduced armament and the addition of long-range radar. It is presumed that they are to be employed primarily for AEW, since large naval forces will probably not oppose the U.S. fleet in any future war.

Successful experiments have already been carried out with the first SSG, the Cusk, which fired a V-1 "Loon" from her after-deck. Operation Wiki in October 1949 indicated that subs may be simply, cheaply, and quickly converted to SSG's by the construction of a ramp for the missile. An SSG can carry one or two Loons with a tested range of 80 miles, a possible range of 200 miles. Use of atomic warheads in such missiles is frequently mentioned as a possible development.

Attack submarines now carry the standard 21° torpedo, both steam and electric driven. It is reported that a sonic torpedo for submarines, developed from a German model, is now in production.

Many experiments are being made in numerous different phases of submarine development. Examples are (1) new color schemes for sub interiors to ease the psychological strain on the crew, (2) a semi-automatic submarine camera (Mark II), which allows the captain to keep his target in view except at the moment the picture is being taken, (3) new foods, which occupy 25% less space Approved For Release 2004/07/128: SELIE 19800971A5000300020002-0 the

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direction of much experimentation is to increase the endurance both of ship and crew, indicating that even more lengthy war patrols may be planned for the future.

The reserve program launched at the end of World War II was planned to train 13,000 officers and men at 30 naval stations on both coasts.

There were organized 58 submarine reserve divisions, each consisting of 19 officers and 200 men.

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NAVAL AIRCRAFT

Designations

AD1, AD2, AD3, AD5. (AD1Q, AD2Q)

Manufacturer

Douglas.

Name

Skyraider.

Carrier-based attack plane.

Can bomb from medium altitude or dive.

AD1

Power

1 Wright R-3350-24.

Hp. normal 2100.

Hp. take-off 2400.

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J. Wright R-3350-24V.

Hp. take-off 2500.

Speed

Max. between 350 and 400 mph.

Range

1500-1700 miles.

Altitude

Service ceiling 25,000%.

Armament

2 20 mm cannon.

12 5" rockets and 2 12" Tiny Tim rockets.

Torpedo under fuselage.

Bomb load normal, 4000 lbs, max. 6000 lbs.

Remarks

Photo. take-off from USS Valley Forge with 3 2000-1b. bombs.

AD3.Q

AD1 equipped as radar counter-measure aircraft.

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AD2

219

Power

1 Wright R-3350-26W.

or

l Wright R-3350-26WA.

Hp. 2700 for take-off at 2900 rpm.

Speed

360 mph. at 3500°.

Range

1500 miles.

Fuel capacity 390 gals. plus 2 150 gal. wing-tanks.

Altitude

Service ceiling 25,000%.

Rate of climb 1600 fpm.

Armament

No fresh data.

Crew 1-3.

AD2Q

AD2 equipped as radar counter-measure aircraft.

AD3

Improved version of AD2.

Power

Speed

Range

Altitude

Armament

AD3N

Night-flying radar counter-measure aircraft with 2 additional crew members.

AD3W

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AD5

No data,

AF2

Designations

AF2S, AF2W.

Manufacturer

Grumman.

Name

Guardian.

Work as a submarine hunting team.

AF 2W

With radar and electronic devices for locating sub.

Power

1 Paw R-2800-46 Kanyakakyakyakyakyakyakyak

2400 hp.

Speed

Range

Altitude

Crew 1-2.

AF2S

Submarine hunter; to work in collaboration with AF2W.

Same performance.

Fall.

Designations

AJ1.

Manufacturer

North American.

Name

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AJl (cont.)

221

Carrier-borne attack and search aircraft.

Designed to carry A-bombs.

Power

2 P&W R=2800-34W.

2300 hp.

AAW KAXEL.

Plus 1 Allison J-33-A-12 in the tail.

A-10.

Speed

Sea level , 500 mph. on all engines.

425 mph. on piston engines alone.

Range

Over 3000 miles.

Altitude

Service ceiling 40,000%.

Rate of climb 4,000 fpm.

Crew 3.

Bomb Load

Can carry atom bomb from carrier.

AML

Designations

AMI.

Manufacturer

Martin.

Name

Mauler.

Single-seat attack bomber.

Power

1 P&W R-4360-4.

3000 up for take-off.

Speed

Max. over 350 mph.

Max. diving speed over 500.

Dive brakes slow dive to 350 mph.

Range

Max. meerelingenikus

over 2000 miles.

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AML (cont.)

222

Altitude

Aymament

4 20 mm. cannon.

3 2200-lb. torpedoes plus 12 5" rockets, 2 Tiny Tims.

Total weight, 10,689 lbs.

Assigned to Naval Reserve. Deliveries complete.

82 assigned to NAR.

A2D1

Designations

A2D1.

Manufacturer

Douglas.

Name

Sky shark.

Successor to AD Skyraider.

Turbo-prop engine. Prototype flight June 1, 1950.

In early production stage.

Power

Allison T-40 [two T-38 coupled side by side]

XT40-A-2.

5500 hp.

Will also use P & W T34 turboprop.

Speed

500-550 mph.

Range

1600 with wing tanks.

Normal fuel capacity 800 gals. with wing tanks.

Altitude

Twice the ceiling and rate of climb (3200 fpm.) of AD.

Load

4 times the amount of bombs per gallon of fuel as jet attack

planes.

Can be flown from the smallest type of carrier (CV-55).

3 external bomb racks, rocket launchers for 5" rockets.

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1201 (cont.)

223

Remarks

Claim that A2D can be used for troop-support. It can hover over combat area by cutting out one turbine.

XA3D1

Manufacturer

Douglas

65,000-lb. jet bomber.

Can operate only from "Coral Sea" type of carrier.

FHI

Designations

FHL.

Manufacturer

McDonnell.

Name.

Phantom.

Power

2 Westinghouse J-30-WE-20.

JATO or catapult launch.

Speed

Max. 505 mph. at 30,000'.

Range

Combat range 690 miles. Ferry range 1400 miles.

Fuel capacity 375 gals.

Plus belly tank 295 gals.

Altitude

Service ceiling 43,000°.

Armament

4 cal. .50 guns in nose.

8 rocket launchers may be fitted under wings.

FJl

Designations

FJ1.

Manufacturer

North American.

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FJL (cont.)

Jet-fighter, single-seat, carrier and land operations.

Power

1 Allison J-35-A-5.

4000 lb. s.t.

Speed

Max. over 550 mph.

Cruising over 350 mph.

Stalling 102.9 mph.

Range

With drop tanks over 1500 miles.

Endurance (max.) over 4 hours.

Altitude

Climb at sea level 5,1250 fpm.

Armament

6 cal. .50 guns in nose.

Used for jet fighter familiarization.

FJ2

Production contract awarded July 2, 1951.

Developed from FJ1 and F86.

F2H

Designations

F2H, F2H2, F2H2N.

Manufacturer

McDonnell.

Name

Banshee.

Jet fighter, successor to FH1. Long nose can hold radar equip-

ment. All-weather night interceptor. Weight about 10 tons.

Will fly only off Midway class.

Power

2 Westinghouse J-34-WE-34.

Each 3150 lbs. s.t.

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F2H (cont.)

225

Speed

Max. at sea level 630-plus mph.

At critical height 575 mph.

Range

Tactical radius 600 miles.

Ferry range 2250.

Altitude

Ceiling 56,000%:

Rate of climb 9000 fpm.

Get to 50,000° in less than 15 minutes.

Armament

4 20 mm. cannon in lower nose.

F2H2

Power

2 Westinghouse J34-WE-22.

3000 hp.

Speed

575-plus mph. at sea level.

In the 600 mph. class.

Cruising 325-plus mph.

Range

Wing tip drop tanks.

Fuel capacity 5000-plus lbs.

Altitude

Service ceiling 45-50,000%.

Rate of climb 9000-plus fpm.

Successor to FHL.

Long nose can hold radar equipment.

FZHZN

[Photograph AW, July 2, 1951, p. 17].

Night fighter. Extensive radar gear.

Power

2 West. J-34.

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F2H2N (cont.)

Speed

Well over 600 mph.

Range

Large capacity wing tanks.

Altitude

Armament

4 20 mm. cannon.

Launched by catapult.

F3D1

Designations

XF3D1.

Manufacturer

Douglas.

Name

Skynight.

Two-seat, twin-jet, carrier-based, all-weather fighter.

F3D1

Power

2 Westinghouse J-34-WE-38.

3600 lbs. s.t.

J-34-WE-34.

Speed

600-plus mph.

Range

Normal 1500 miles.

Altitude

Service ceiling 45,000 2-plus.

Armament

.20 mm. cannon.

Crew 2.

F3D2

Deliveries will start soon.

New type G-3 autopilot.

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F3H

22.7

Designations

F3H.

Manufacturer

McDonnell.

Name

Demon.

Power

West. J-40.

8000-9000 lbs. s.t.

First flight reported August 13.

Swapt-back wings. Needle-nose.

XF4D1

Manufacturer

Douglas.

Elliptical delta wing. Photo [AA, February 19, 1951, p. 4].

Power

West. XJ-40.

7500 lbs. thrust.

Fau

Designations

F4U4, F4U5.

Manufacturer

Chance-Vought.

Name

Corsair.

F4U4.

Power

P & W R-2800-18W.

XXXXXX 2100 hp.

Water-injection.

Speed

Max. at sea level 379 mph.

Cruising 227 mph.

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F4U4 (cont.)

Range

1270 miles [AYB].

Full capacity 234 gals.

Two auxiliary tanks total 300 gals.

Altitude

Service ceiling 41,4001.

Rate of climb 4340 fpm.

Armament

6 cal. .50 guns or 4 20 mm. cannon.

8 5" rockets or 2 1000-1b. or 1600-1b. bombs.

F4UFE

As above with radar equipment.

F4U5N

F4U4 with special night-fighting equipment.

Power

1 P& W. 1900 hp.

Speed

Over 450 mph.

Altitude

More than 40,000'.

Armament

4 20 mm.

F4U5

Power

1 P&W R-2800-32W.

2300 hp.

Speed

MAKA KANCEMAKAKAKA

Max. 470 mph. at 27,000'.

410 knots.

Cruising 156 knots.

Range

1500-plus miles. Fuel consumption 43 gals. per hour. Total

fuel capacity (with auxiliary tanks: 534 gals.

"Could provide cover for 6 hours at a stretch!" (Korea)

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F4U5 (cont.)

Altitude

Service coiling 42,5001.

Rate of climb 4800 fpm.

Armament

4 20 mm. cannon and 8 5" rockets.

2 Tiny Tim rockets.

F7F1

Designations

F7F3N, F7F4N.

Manufacturer

Grumman.

Nama

Tigercat.

Power

2 P & W R-2800-22W.

Hp. normal 2100, with water-injection 2800.

Speed

427 mph. at 19,000°.

Range

1015 miles.

Altitude

Service ceiling 36,000'.

Initial rate of climb 4260 fpm.

To 10,000° in 2.6 minutes, 20,000° in 6.2 minutes.

Armament

4 20 mm. cannon.

Up to 4000 lbs. of bombs, rockets, etc.

Used by Marine fighter squadron in Korea.

PTFAN

Folding wings. For carrier use.

ARE.

Designations

F8Fl.

Manufacturer

Grumman.

Name

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73F1

Power

P & W R-2800-34W.

2800 hp. for take-off (with water-injection).

1700 normal.

2210 hp. with water-injection at 10,000°.

Speed

Max. over 455 mph. 425 at sea level.

Range

Normal with drop tank 1650. Max. ferrying 2200.

Fuel capacity (internal) 185, 2 wing tanks of 150 each.

Altitude

Service ceiling 42,300°. Rate of climb (water-injection)

normal 5700 fpm.

Armament

4 cal. .50 wing-mounted guns.

Bombs up to 2000 lbs. or 4 5° rockets.

FOF LR

F8F1 with 4 20 mm. cannon.

F8F2

Power

R-2800-E. 2500 hp.

Altitude

Has made a controlled climb from take-off to 10,000° in 92 seconds.

F6Ul

Designation

F6U1.

Manufacturer

Chance-Vought.

Name

Pirate.

Power

1 Westinghouse J-34-WE-30A.

Solas afterburner.

Normal hp. 3000.

Speed

Max. 550 mph.

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F6U1 (cont.)

Range

Jettisonable wing-tip tanks.

Fuel capacity 700 gals.

Altitude

Service ceiling 38,000 -plus.

Rate of climb 7800 fpm.

F7U1

Designations

F7U1, F7U2.

Manufacturer

Chance-Vought.

Name

Cutlass.

Power

2 Westinghouse J34-WE-32. 3000 Hp.

Speed

Max. 700-plus mph. at sea level.

600 mph. at 50,0007.

Range

1000-plus miles.

Altitude

Rate of climb 10,000 fpm.

F7U2

Production version.

Power

2 Westinghouse J-45.

6000 lbs. s.t.

Speed

Range

Drop tanks.

F7U3

Power

2 Westinghouse J-46.

4800 lb. dry.

6000 lb. with afterburner.

Speed

600-plus mph.

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F703 (cont.)

Three have flown. Navy authorizes production.

One of the shortest rates of turn of any U.S. high-speed jet.

Navy will buy "substantial number."

F9F

Designations

F9F2, F9F3, F9F5.

Manufacturer

Grumman.

Name

Panther.

Short take-off run for carrier operation, without catapult.

F91'2

Power

1 P&W J-42-P-2.

5000 lbs. s.t.

J-42-P-6.

5000 lbs. s.t.

Speed

Max, 600-plus mph. at sea level.

Range

1200-plus miles.

Altitude

Armament

4 20 mm cannon.

6 5" rockets or 2 1000 lb. bombs.

F9F3.

Power

Allison J-33-A-8.

4600 lb. s.t.

5000 lb. s.t.

Speed

600-plus mph.

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F9F5

Note

In large-scale production.

Power

1 P&N J-48

or

J-42

or Allison J-33

P & W J48-P-4.

6250 lbs. s.t.

Speed

650 mph. at sea level.

Probably 100 mph. slower than MIG15.

MF9F6

Swept-wing Panther.

Manufacturer

Grumman.

Power

P&W 48.

Supersonic in level flight.

XF10F1

Swept-wing carrier fighter.

Manufacturer

Grumman.

Power

1 Westinghouse J-40.

10,000 lb. s.t.

Speed

Max. 800 mph. at sea level.

Grumman receives contract for F10F1 for service testing.

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PBAY2

Designations

PB4Y2

Manufacturer

Convair.

Name

Privateer.

Power

4 PAW R-1830-94

RXXXXX

XXXXXXXXXXXX 1200 hp. each.

Speed

Max. over 250 mph.

Cruising over 200 mph.

Stalling 93 mph.

Hange

Max. over 3000 miles.

Altitude

Bomb Load

6000 lbs. (bombs or depth-charges).

Armament

Nose-turret, 2 dorsal turrets, tail turret,

www waist blisters, each equipped with cal. .50 guns.

Crew 11.

PEM5

Designations

PBM5, PBM5A.

Manufacturer

Martin.

Name

Mariner.

General purpose amphibian flying boat.

Power

(PEM5) 2 PAW R-2800-22.

(5A) 2

2 P&W R-2800-34.

max. 2100 hp. for take-off.

Speed

(5) Max. over 200 mph.

Gruising 147 mph.

Alighting 82 mph.

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FEMS (cont.)

Range

(5A) Max. range 2300 miles.

Fuel capacity 3000-plus gals.

Altitude

(5) Service ceiling 20,200.

Initial rate of climb 588 fpm.

Rate of climb 370 fpm.

Armament

6 cal. .50 guns (in turrets in nose and amidships).

Bomb Load

4000 lb. of bombs or depth-charges.

P2V

Designations

P2V1, P2V2, P2V3, P2V4.

Manufacturer

Lockheed.

Name

Neptune.

Patrol bomber especially designed to hunt down "sacrker subs.

PSVL

Power

2 Wright R-3350-8.

2100 hp each.

2300 hp. each for take-off.

Speed

Range

P2Vl set record for distance in a straight line.

11,235 miles. [1946]

Altitude

Armament

2 flexible cal. .50 nose guns.

Dorsal and tail turrets with 2 cal. .50 guns each.

Grew 7.

Load

16,500 lb. bombs.

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BSAS

Power

2 Wright R-3350-24W.

each 2500 hp. for take-off (dry).

a 2800 hp. for take-off (wet).

" normal 2100 hp.

Armament

6 20 mm. cannon in nose.

Corsal turret 2 cal. .50 guns. Tail turret 2 20 mm. cannon.

P213

Power

2 Wright R-3350-26W.

each 2700 hp. for take-off (dry).

" 3200 hp. for take-off (wet).

* 2300 hp. normal, sea level to 1200°.

Speed

Over 300 mph level flight.

Cruising 170 mph.

Stalling (landing) at 45,000 lbs. 77 mph.

Range

Patrol load 3000-plus miles.

Ferrying 4100-plus miles.

Altitude

Usable ceiling 23,200%.

Bomb Load

(in bomb bay) 800 lb. (torpedoes or depth charges).

Armament

1 ton of radar [WF, April, 1950].

6 20 mm. cannon fixed in nose.

2 cal. .50 flexible guns in top turret, 2 in power tail turret.

Remarks

7 place.

P2V3C

Adapted for carrier operation. JATO.

In 1949 took off from aircraft carrier. Flew 4,000 miles

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F2V1

Power

2 Wright R-3350-30W.

each 3250 hp. for take-off (wet).

Speed

Range

Normal fuel capacity 4210 gal.

Wing-tip fuel tanks KXXXXX Normal range 4200 miles.

Altitude

Service ceiling 26,100'.

Armament

6 nose guns, rockets, depth charges.

Crew 4-9.

Remarks

New submarine-detection equipment.

P2V5

[Photograph AA, May 14, 1951, p. 14.]

Power

Compound engines.

Range

Larger wing-tip tanks.

Armamen t

Nose turret with twin flexible 20 nm. cannon.

Carries torpedoes.

More radar and electronic equipment.

P2V6

Coming along on production line.

For mine-laying.

P4HI

Designation

P4ML.

Manufacturer

Martin.

Name

Mercator.

Long-range naval patrol aircraft.

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Pawl (cont.)

Power

2 P&W R-4360-20. 20W.

2 Allison J-33-A-23.

J-53-A10.

Allison - 4000 lbs.

Speed

MXX. over 350 mph. at 16,400°.

Cruising 200-plus at 15,000'.

Range

2000-plus [Max over 3000.

Normal fuel capacity 4200 gals.

Altitude

Service ceiling 30,000%.

High speed photo runs at 30,000%.

Load

Armement

Nose, mid-upper and tail turrets.

12,000 lbs. of mines, bombs, rockets, droppable gas tanks.

Crew 9.

P5Ml

Designations

P5Ml.

Mataufacturer

Martin.

Name

Marlin.

Anti-submarine twin-engined flying boat.

Development of PEM5. For anti-sub work.

Power

2 Wright R-3350-26-26.

3250 hp.

Speed

Max. 270 mph.

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P5Mil (cont.)

Armament

"Internal and external."

Crew 7 or 9.

Remarks

Initial test flight reported July 2, 1951.

XP5Y1 (R3Y1)

Manufacturer

Convair.

Weight 138000 lbs.

Power

4-engine turbo-prop seaplane.

Allison T-40.

(new model) 7500 lbs. s.t.

Engines develop 5500 hp. a piece.

Speed

390 mph. [with old T-40 engines].

Range

5000 miles.

Load

To carry A-bomb ?

Grew 12.

Remarks

Production order for 12 scheduled in 1952 funds. Will cost

\$6,957,900 each.

HUP1

Designations

HUP1.

Manufacturer

Piasecki.

"Plane guard duty with carriers."

"Compact enough to fit lift of smallest carrier."

Power

Continental R-975-34.

525 hp.

Speed

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RUPL (cont.)

Crew 2.

Passengers 5 or 3 litters.

HRP

Designations

HRD, HRP2 (USAF H21).

Manufacturer

Piasecki.

HRP1

Power

1 P&W R-1340. 600 hp.

Speed

Max. 120 mph.

Capacity

Crew 2. Passengers 8. 6 litters.

Rescue 8 people within 300 miles.

HRP2

Higher cruising speeds and generally better performance.

HC43

Designations

HO451.

Manufacturer

Sikorsky.

Power

1 P&W R-1340. S3H2.

550 hp. at 5000'.

600 hp. for take-off.

Crew 2. Passengers 10, or 8 litters.

HO3S

Designations

H03S1

(USAF H5).

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HO3S (cont.)

Manufacturer

Sikorsky

Power

1 P&W R-985. 450 hp.

Crew 1 and 3 passengers.

Deliveries complete.

HIL

Designations

HTL1, HTL2, HTL3.

Manufacturer

Bell.

Power

1 Franklin 6V4-178-B32.

178 hp.

Capacity

Three total.

D-558-1

Designations

D-558-1.

Manufacturer

Douglas.

Name

Skyrocket.

High-speed research aircraft.

Power

1 Allison J33-4-23.

Speed

Max. 650.606 mph. Mach. .87.

Min. speed (light) 130, (heavy) 150.

Range

Fuel capacity 230 gals. plus 2 50-gal. wing tanks.

1500 lbs.

Altitude

Absolute ceiling 49,500'.

Max. climb 7500 fpm.

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12-558-2

Manufacturer

Douglas.

Name

Skyrocket.

D-558-1 with swept-back wings and supplementary rocket power-plant.

Three built. [J50]

Power

Westinghouse 24C (J-34).

Plus Reaction Motors rocket motor.

Speed

Mach. 1.5. V-max. TAS. 1000 mph.

Min. speed light 131, heavy 180.

Range

250 gals. for jet [J50]. 1500

3000 lbs. for rocket [J50].

Altitude

Cailing for V-max. 55,000'.

Absolute ceiling 67,0007.

Max. climb 25,000 fpm.

Reached over 63,000' on flight.

APPENDIX B

Mavy	Aircraft	Inventory	and	Production
The second second	A STATE OF THE PARTY OF THE PAR	PARTY AND DESCRIPTION OF THE PROPERTY AND ADDRESS OF THE PARTY AND ADDR	CONTRACTOR OF STREET	The visite and send are stated and an experience of the send of th

Operating A/C	1949	1950	1951	Programad (Before Ko	
Navy & Marine Corps	8,035	5,598	L,389		Korea)
Navy & Marine Corps Reserves	2,678	2,185	1, 8ևև		
Make 7 a		district on the co	menteus he streetsbesch		
<u>rotals</u>	10,713	7,783	6 ₂ 233		

Delivery Schedules

1 July 1949-30 June 1950 997

1 July 1950-30 June 1951 945 (Before Kores)

1 July 1949-30 June 1951 1942

Production Estimates

Calendar 1950 1026

Calendar Jan. - Aug. 1951 931

1957

Operating A/C, 1 Sept. 1951: Regular Navy and Marine Corps Planes

4,389 Operating Programed 1951

1,931(1) Add: Production

6,320

1951 [1 Sept.]

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Operating A/C, 1 Sept. 1951: Total

Navy & Marine Corps

6,320

Navy & Marine Corps Reserves (Programed)

1,844

Total

8,164(1)

The 997 A/C scheduled for delivery during the fiscal year 1949/50 has been added to the number of operating A/C programed for 1951. It is possible that they were included in the programed estimate for 1951: if so, a fraction, perhaps 50% (500 a/c) should be deducted thereby reducing the total of Navy-Marine operating A/C to 6,147 and the total, including Navy and Marine Corps Reserve operating a/c to about 8,000. In Aug. 1950, the Navy estimated an increase of 1,102 a/c for fiscal year 1950/51, giving a total of 5,491 Operating A/C (which may be the more accurate figure) and a total with Reserves of 7,335 A/C. However, in view of the Korean situation, it seems unlikely that all the planes scheduled for retirement in fiscal year 1950/51 were retired. The AF scheduled B-29s for retirement 1 July 1951 but are still using them in Korea in quantity. Also, the Navy demothballed, July-December, 1950, 907 combat a/c.

The estimate of 8,491 a/c including the Reserves falls between the estimates given 16 April 1951 to the H. R. Appropriations Committee of 8,161 a/c as of June 30, 1951 and 8,739 a/c projected for June 30, 1952. If the 316 a/c added for July-Aug. 1951 production are subtracted, the remainder for 30 June 1951 of 8,185 is very close to the Navy's expectation

(1) A cross-check using delivery schedules produces the following figures:

Operating A/C Programmed 1951 Schedules for Delivery 1 July 1949-30 June 1951 July-Aug. 1951 Production

4,389 1,942

316

Total. 5,617
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(Programed 1951)

1,844 0,491

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of 8,161.

In addition, the Navy had 3,200 a/c described as non-operational and in storage on 30 Dec. 1950.

Production of Navy Aircraft by Types: 1 Jan. 1950-1 Sept. 1951

(Note: 1/5 of s/c on fiscal year 1950/51 procurement to be jetfighters and 1/5 patrol s/c for ASW. (Adm. Sherman at House
Hearings, 27 April, 1950)

Lack of time and available data have prevented making a complete table of estimates by types. The following may be noted:

Fighte	TH.	
F3D F40-5 F9F FH1 F2H F6U	814 120 600 60 200 33	(Jan. 1949-Sept. 1951)
Attack Pl	anes	
am Ads Ads	23 2 50 55 149	(plus 215 in 1949 and 900 AD before 1949)
Patrol B	ombers	
P2V P2V—l1 P5M PBM5A	278 30 19 25 36	
XP5AT	12	on order @ \$6,967,900 each on 1951/52 appropriations
HUP	35	

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Bibliographical Note

A. Naval and Air Manuals

- 1. James C. Fahey, The Ships and Aircraft of the U. S. Fleet

 (6th ed., 1950). This work has been justly called "the spy's handbook." Containing the list of all vessels on the Navy Register as of 1 January, 1950 and giving the fleet status (active or reserve, Atlantic or Pacific) of all combatant ships, it furnishes the ideal point of departure for the investigator. The aircraft section is less useful but is still of great value. All but the newest types of aircraft are listed and considerable information regarding their use by particular squadrons is found in the descriptive passages. Ship conversion and construction programs are described, and armament and performance data seem to be accurate.
- 2. Jane's Fighting Ships 1950-51 (1950). Jane's was used principally to supplement Fahey, as it contained certain items which were more up-to-date.
- 3. Jane's All the World's Aircraft 1949-50 and 1950-51 (1949, 1950). This was used as the basic source for aircraft performance.
- 4. Brassey's Annual 1948, 1949, 1950. Except for certain excellent general articles this work furnished little information.

B. Official Government Publications

1. Congressional Hearings. For this report were used the hearings before Senate Armed Services Committee (81-2, and 82-1), and

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Of these extremely useful hearings the last proved the most

valuable. The personnel strength of the Navy and Marine Corps is categorically given, as are the numbers of ships in commission and about to be activated. The total number of aircraft is shown, though no breakdown by type is given. The number of air groups and squadrons may also be obtained from the hearings, as well as much information regarding the status of fleet and air bases. Precise data on weapons is less easy to obtain, but even when the discussion is put off the record, certain implications can be drawn and at the very least furnish valuable leads for further investigation. The hearings also contain general statements by high-ranking naval officers which prove useful in evaluating the development of new weapons and equipment.

- 2. U. S. Naval Institute Proceedings (1950, 1951). Only occasionally is new information gleaned from this periodical, but it contains useful articles (such as one describing the launching of a guided missile from a submarine) and recapitulations of ship construction and conversion programs which are helpful as guides.
- 3. U. S. Department of Commerce, Airman's Guide, vol. 6, no. 8.

 From this manual was obtained the list of naval air stations and facilities in the United States.

C. Service Journals

1. The Army-Navy-Air Force Journal. This publication (read 1 July, 1950 - 25 August, 1951) is of the utmost value. Perhaps its most useful feature is its publication of Navy and Marine Corps orders, and the suspension of this service between 12 August, 1950 and 9 June, 1951 was a serious handicap to the investigator. From

re-converted ships, and the existence of various commands. Heavy Attack Ming ONE, for example, was first noticed in orders, Movements of and fleet and air bases may also be identified. ships and air units are not revealed in published orders but there are numerous news items which give this information. While it is true that ships entering the Korean war zone were not mentioned, the record of their departures is extremely useful in calculating the size and deployment of the fleets, particularly when the ships of a destroyer division are moved and the division and its destination are identified. As the Journal naturally concentrates on news of interest to Army, Navy, and Air Force Officers its news stories are an admirable check on items which might have been missed or misunderstood in the public print. the social column is of value, for here one sometimes learns the existence and location of commands through the names of commanding officers.

- 2. The Army-Navy-Air Force Register. This publication is almost identical with the Journal, but there are enough items found in it alone to justify study.
- 3. Naval Aviation News. This publication, read from 1 January, 1950 through August 1951, is a mine of information. It reveals the existence of air groups and squadrons, their location and mission (usually with a long time-lag), the movements of carriers, and a mass of background information on naval aviation. From N.A.N. one may learn the types of planes flown by various squad-

rons; something about the rest ve subject of weapons; significant Approved For Release 2004/07/34 LINA RDP79R00971A000300020002-0

- data on tactics and operational practices. The activities of Reserve squadrons, a subject outside the scope of this study, are particularly well covered.
- h. All Hands. Less technical than Naval Aviation News, All Hands, read from January 1950 to July 1951, reveals the existence and location of ships, again with the same time lag observed in the aviation magazine.
- 5. Ordnance. This publication is less revealing than one might expect. From it, however, a technical ordnance expert can pick up numerous leads, and for this study it was the major source of information on weapons.

D. Daily Newspapers.

- The New York Times. This paper was read from 1 May, 1951 to date.

 The remarks concerning The Times in the bibliographical note appended to the Army section of this report generally apply to the Navy, except for the value of communiques. Since the Navy names ships and task forces, its communiques are extremely valuable.

 Air units are not usually mentioned; in fact only once, when on 2h August CAG5 was reported back in combat aboard the Essex, was a unit named. Types of planes in combat, however, are named.
- 2. The New York Herald Tribune. See the bibliographical note appended to the Army section of this report.
- 3. The New Haven Register. See the bibliographical note appended to the Army section of this report.
- 4. Stars and Stripes (European and Pacific editions). These periodicals, so valuable for the Army, are practically worthless for the Navy.

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E. Periodicals.

- 1. News Magazines. Time, Newsweek and U.S. News and World Report have been read. Except for "background articles" (which must be used with caution) little of value was found.
- 2. Popular Magazines. The Saturday Evening Post (January 1950 to date) and Colliers (July 1950-July 1951) were consulted, but found practically worthless. Popular Science, however, proved more substantial, particularly in the field of meapons. Flying yielded a few items.
- 3. Trade Journals. The only trade journal which yielded any significant information was Aviation Week, which provided useful data on naval aircraft in production, results of tests, and characteristics of planes now in use.

F. Books on World War II.

Knowing from other sources the extent to which the Navy is provided with World War II equipment, we were able to make good use of historical material. The Morison naval history series afforded much data on weapons, detection equipment, and their use. The same type of information can be gleaned from the series entitled Science in World War II, particularly the volume edited by J. E. Burchard, Rockets, Gurs, and Targets.

SECTION IV

THE UNITED STATES AIR FORCE

It is impossible to compute the time and number of lives saved by Tactical Air Power in the last war. Ask any doughboy what he thinks. He will tell you that there was never a more welcome sight than the tactical fighters and bombers ranging overhead, clearing the way for him.

The Air Officer's Guide, 1950, p. 35.

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THE UNITED STATES AIR FORCE

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5. Caribbean Air Command

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APPENDIX

LIST OF CHARTS

- I Department of the Air Force
- II United States Air Force General
- III USAF: Staff
- IV USAF: Continental Organization
- V USAS: Overseas Organization
- VI Diagram of a Typical Wing Organization
- VII MATS International Routes
- VIII Combat Cargo Command

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SUBSECTION I

MISSION

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I. MISSION OF THE AIR FORCE

There are four major objectives, the fulfillment of which constitutes the mission of the Air Force.

The first and most important objective is the maintenance of capability of delivering atomic bombs against any aggressor. General Vandenberg states that "the amount of atomic delivery capability which is sufficient to deter aggression and which we can maintain is our most serious and fundamental problem." The well-publicized emphasis which the Air Force has given to long-range bombing is an indication of the paramount importance attached to this objective.

The second objective is the adequate defense of this hemisphere against air attack, through the use of day-fighters, night-fighters, (i.e., all-weather-fighters), and a radar defense warning screen. In the future this objective will also be pursued through the use of ground-to-air guided missiles. Although this objective is to be attained partly through strong defense, it is also to be achieved through the fulfillment of the first objective, for "the most tenable means to prevent large numbers of atomic bombs from dropping on this country is to retaliate by destroying these weapons and the means for their delivery at their source." [Vandenberg]

The third objective is to continue to "develop a greater capability to perform the Air Force role in unified operations," i.e., to provide tactical air support of all surface forces both Army and Navy.

The final major objective is to fulfill commitments to allies in the North Atlantic Treaty organization. For the Air Force, this means responsibility for the leading role in providing what is needed to deny to enemy airpower the air space under which Allied ground forces might operate. Further, such

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ground forces must be supported continuously in their operations. Ability to fulfill this obligation will be particularly critical during the next few years.

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The critical importance of the Air Force in the U.S. over-all national defense is evident from the extent to which the entire strategy has hinged upon the capacity of Strategic Air Command to destroy Soviet industry by atomic bombardment.

In relation to the other armed services, the position of the Air Force is this: In naval strength, American and British fleets already control the seas, or at least the surface of the seas; for ground strength, the Allies must rely heavily on the forces of the European countries; but in air power, it is the responsibility of the United States, far more than of any ally, to maintain superiority over the Russians both in strategic delivery of atom bombs and in tactical support of ground forces. General Vandenberg maintains that the Air Force "is the single potential that has kept the balance of power in our favor," and that "it is the one thing that has, up to date, kept the Russians from deciding to go to war."

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DUBSECTION II

AUR ORDER OF BATTLE

A

OVER-ALL SUMMARY:
Organization, Strength, Composition, Deployment, and Combat
Value of the Air Force.

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TABLE I

SECRETARIES, DEPARTMENT OF THE AIR FORCE, AND PRINCIPAL COMMANDERS, USAF. (as of 10 August, 1951)

THE SECRETARIES

Thomas K. Finletter

Secretary of the Air Force

John A. McCone

Under Secretary of the Air Force

Eugene M. Zukert

Assistant Secretary of the Air Force

(Management)

Roswell L. Gilpatric

Assistant Secretary of the Air Force

(Procurement)

PRINCIPAL COMMANDERS AND STAFF OFFICERS

Chief of Staff

Gen. Hoyt S. Vandenberg

Vice Chief of Staff

Gen. Nathan F. Twining

Assistant Vice Chief of Staff

Maj. Gen. William F. McKee

Deputy Chief of Staff, Operations

Lt. Gen. Thomas D. White

Deputy Chief of Staff, Comptroller

Lt. Gen. Charles B. Stone

Deputy Chief of Staff, Materiel

Lt. Gen. O. R. Cook

Deputy Chief of Staff, Materiel (Acting)

Maj. Gen. Carl A. Brandt

Deputy Chief of Staff, Personnel

Maj. Gen. R. E. Nugent

Deputy Chief of Staff, Development

Maj. Gen. Donald A. Putt

The Inspector General

Lt. Gen. Howard A. Craig

Special Assistant to C/S for Reserve

Maj. Gen. Earl S. Hoag

Forces The Judge Advocate General

Maj. Gen. Reginald C. Harmon

The Surgeon General

Maj. Gen. Harry G. Armstrong

Chief, Air Force Chaplains

Maj. Gen. Charles I. Carpenter

Director of Public Relations

Brig. Gen. Sory Smith

MAJOR ZI COMMANDS

COMMANDING GENERALS

Air University

Lt. Gen. Idwal H. Edwards

Air Defense Command

Lt. Gen. B. W. Chidlaw

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Strategic Air Command Lt. Gen. Curtis E. LeMay Continental Air Command Maj. Gen. Willis H. Hale Military Air Transport Service Maj. Gen. Laurence S. Kuter Air Training Command Maj. Gen. Robert W. Harper Tactical Air Command Lt. Gen. J. K. Cannon Air Proving Ground Maj. Gen. Bryant L. Boatner Special Weapons Command Brig. Gen. John S. Mills Headquarters Command Brig. Gen. Morris J. Lee Air Research and Development Command Lt. Gen. Earle E. Partridge USAF Security Service Brig. Gen. Roy H. Lynn

OVERSEAS COMMANDS

Command

COMMANDING GENERALS Far East Air Forces Lt. Gen. Otto P. Weyland U. S. Air Forces in Europe Lt. Gen. Lauris Norstad Northeast Air Command Maj. Gen. Iyman C. Whitten Alaskan Air Command Maj. Gen. Wm. D. Old Caribbean Air Command Brig. Gen. Emil C. Kiel

OFFICERS ON SPECIAL ASSIGNMENTS

Chairman, Dept. of Defense Management Gen. Joseph T. McNarney Committee Acting Commander in Chief, U. S. Air Lt. Gen. John K. Cannon Forces in Europe Commander, Joint Task Force Three Lt. Gen. Elwood R. Quesada Senior Air Force Member Military Lt. Gen. Hubert R. Harmon Staff Comm., United Nations Commander in Chief, Alaskan Command Lt. Gen. William E. Kepner Commander in Chief, U. S. Northeast Maj. Gen. Lyman P. Whitten

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OVERALL ORGANIZATION

The Department of the Air Force was created as an executive department in the National Military Establishment under the provisions of the National Security Act of 26 July 1947. The same act established the United States Air Force under the Department of the Air Force. Both Department and Air Force began to function officially on 18 September 1947. The USAF is composed of the Regular Air Force, the Air Reserve, the Air National Guard, and the Air Reserve Officers Training Corps.

Civilian Administrative Organization. The Secretary of the Air Force, Thomas K. Finletter, is head of the Department and is responsible for all matters pertaining to its operation, as well as for the execution of duties prescribed by law or assigned by the President and the Secretary of Defense. Subordinate to him are one Under Secretary (John A. McCone), who is deputy to the Secretary and who shares with him responsibility for the general supervision and operation of the Department, one Assistant Secretary (Management) (Eugene M. Zuckert), responsible for policies relating to organization and management of the Department, including budgetary affairs, fiscal affairs, cost control, manpower, contract financing, civilian components, and civilian-military personnel arrangements, and one Assistant Secretary (Matériel) (Roswell L. Gilpatric), responsible for policies relating to procurement and matériel programs, production, mobilization, supply, maintenance, transportation, industrial security, commandinatallations, real estate, contract renegotiation, and contract appeals.

Further elaboration of the Administrative Organization is shown in Chart I.

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Hilitary Organization: Staff. The Chief of Staff, USAF, General Hoyt S. Vandenberg, commands all components of the Air Force, and is responsible to the Secretary of the Air Force for the readiness of all components and for the operation of the Air Force. He is principal advisor to the President and the Secretary of the Air Force on the employment of the Air Force.

The Vice Chief of Staff, Ceneral Nathan F. Twining, assists the Chief and in his absence performs his functions.

The Assistant Vice Chief of Staff, Major General William F. McKee, is responsible for administrative procedures and coordination within the Air Staff.

There are five Deputy Chiefs of Staff, responsible for 1) development of budgetary and fiscal programs, 2) administration and management of all military and civilian personnel, 3) scientific and technological development in the fields of aircraft, weapons, and new devices, 4) Intelligence, Operations, and Plans, and 5) programs in the field of Matériel and services (see Chart II, Headquarters, U.S. Air Force, and Table I). This system of deputies was set up in 1947 as a substitute for the traditional military organization (A-1 Personnel, A-2 Intelligence, etc.).

Also directly responsible to the Chief of Staff are the Surgeon-General, the Inspector General, the Judge Advocate General, a Special Assistant to the Chief of Staff for the Reserve Forces, the Director of Public Relations, and the Air Board, which has both civilian and military members, and which assists in the formulation of overall air policies (see Chart I).

Further elaboration of the headquarters organization is shown in Chartell and III

Military Organization: Commands. All activities and all units of the USA? within the United States are assigned to one of twelve commands,

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which are divided according to function. These commands, which are diagrammed in Charts II and IV and will be analyzed more fully below, are 1) Air University,

- 2) Air Proving Ground, 3) Strategic Air Command, 4) Continental Air Command,
- 5) Air Training Command, 6) Tactical Air Command, 7) Special Weapons Command,
- 8) Military Air Transport Service, 9) Air Defense Command, 10) Air Matériel Command, 11) Air Research and Development Command, and 12) Headquarters Command. The commanding officers of these commands are shown in Table I.

Overseas Commands. The twelve commands listed above are all functional commands, and their jurisdiction has no relation to geography or the area of operations. In the case of units which are assigned outside the United States, however, such units are placed in one of five overseas commands, namely

1) United States Air Forces in Europe, 2) Caribbean Air Command, 3) Far East Air Forces, 4) Alaskan Air Command, and 5) Northeast Air Command.

These commands are diagrammed in Charts II and V and their commanding officers are shown in Table I.

From the above statement, it will be clear that units stationed overseas are subject to a dualism of command. Their function places them in one
of the twelve general commands and their theatre of service places them under
the commanding officer of the theatre command within which they operate. For
instance, the 20th Air Force, containing B-29 bomber groups stationed at Okinawa, is part of the Strategic Air Command and is also part of Far East Air Forces.

WING AND OTHER UNIT ORGANIZATION

As recently as 1950, the group was the standard unit of Air Force organization and the standard measure of Air Force strength, but it has now been superseded by a more inclusive unit, the wing. The wing includes not only the combat air group, but also the support elements which make possible

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the movement of a group to overseas areas for operation. Thus the wing would contain, in addition to its combat units, a maintenance and supply group, an air base group, and a station medical group. Formerly a wing included three combat squadrons, but with the growing size of the wing it is now expected to include four. Although the wing is at present the basic organizational unit, the Air Force also maintains a limited number of squadrons which are not operatively attached to any wing. (See diagram of Wing organization in Chart VI)

At present, the combat mobile portion of a heavy bomber wing contains about 3,500 military personnel and about 30 planes. For a medium bomber wing, the corresponding figures are 3,000 personnel and 35 planes plus, in some cases, as many as 20 tanker planes; for a fighter wing, 2,000 personnel and 75 planes; for a troop carrier wing, 1,500 personnel and 48 planes.

The exact structure of a wing may be understood from the following analysis of the wing set-up planned for the B-47 when it comes into operation. The wing will contain:

- a) One combat group, consisting of three bombing squadrons and one refuelling squadron. Each bombing squadron is to have 15 B-47s, and the refuelling squadron will have 20 tankers, either B-29s or C-97As. The total group strength will be 1600 officers and airmen.
- b) One maintenance and supply group, consisting of a maintenance squadron (300 men), a supply squadron (400 men) and a motor vehicle squadron (250 men). Total, 950 personnel.
- c) One Air Base group, consisting of a headquarters squadron (100 men), a communications squadron (100 men), an air police squadron (130 men), a food service squadron (200 men), and an installation squadron (160 men). Total, 690 personnel.
 - d) One medical group, containing a personnel of 120.
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The wing in question, then, will contain in sum 3 bombing squadrons, one refuelling squadron, 3 maintenance and supply squadrons, 5 air base squadrons, and a medical group; and its total personnel will be 3,360.

All comparisons between Air Force units and Ground Force units are pointless because of the well-known fact that the ratio of services of supply and other supporting agents to combat elements is entirely different in the cases of ground forces and air forces. For instance, it has required 1480 military personnel to keep a force of 310 aircrewmen, assigned to 30 B=50%, effectively operative.

THE 95 WING FORCE

In the two years, 1950-1951, the Air Force has been undergoing two major transformations simultaneously. One of these is the conversion from piston-powered aircraft to jet-powered craft, which will be discussed below. The other is the expansion from a 48 wing force to a force of 95 wings.

This expansion began immediately after the outbreak of the Korean War and was authorized in three steps, by which increases were ordered, first from 48 to 58 wings, then from 58 to 68, and most recently from 68 to 95 wings. Current proposals by Senator Lodge for a 150 wing program foreshadow a continued expansion, and the Air Force itself appears committed to further growth by the statement of General Vandenberg that the 95 wing force cannot be expected to perform both its offensive and defensive functions and "to absorb the creeping wastage of peripheral warfare." It has been reported unofficially that the formal request of the Air Force, later this year, will be for 138 combat wings.

In terms of actual growth in fulfillment of the mandate to expand, the Air Force has increased from 48 to 87 wings in the year ending 30 June 1951. The rapidity of this wing growth has been made possible by the availability,

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in 1950, of a number of Air National Guard and Air Force Reserve units. In September, 1950, the Air Force called two Reserve wings, of which one was a medium troop carrier and the other was a light bomb wing; in October, it called five ANG wings, consisting of four fighter bomber and one tactical reconnaissance wing; in November, it called two additional medium troop carrier wings from the Reserve. During the first six months of 1951, it called twenty-two additional wings (among these were 5 on February 1, 6 on March 1, and 6 on April 1). Altogether, a total of twenty-one ANG and ten AFR wings had been called to active service by June 30, 1951. Meanwhile the Air Force activated ten additional regular wings, so that the present 87 wing force consists of 46 wings in being prior to June 30, 1950, (1) 10 regular wings activated within the last year, 21 ANG wings, and 10 AFR wings.

Actual increase in strength, however, has not been proportionate to increase in the number of wings, for the Reserve and Guard wings were considerably below strength. They were initially almost at strength in officer personnel, but very much under strength in airmen personnel. When they were brought to service, they had to be provided at once with filler personnel from other existing units of the Air Force and from the training command to build them up to an effective strength. Even with these changes, it was still true in July, 1951, that in some cases they were only 60 to 70 percent of authorized strength, and were posted at separate installations where it was necessary to keep them until collective housing and facilities could be provided.

As the AFR and ANG potential is utilized, the capacity for rapid

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expansion diminishes, and it is expected that only eight more wings (probably all regular wings) will be added in the fiscal year 1951-52. These additions will be spaced at fairly uniform intervals over the year.

As a measure of increase in strength, the term wing is deceptive for the size and character of the wing has been altered. The new wing is a combatready wing, and as such, will have a full four-squadron strength, instead of the three squadrons of peacetime. This explains the otherwise confusing fact that while the Air Force needed only 502,000 men for its earlier 70-group program, it now needs 1,061,000, or more than twice as many, to man a force nominally only a third larger. Furthermore there is now reportedly a change in Air Force parlance, by which the term "combat wing" has been restricted to fighter and bomber wings, and no longer includes troop cerrier wings (some fifteen of them). This means that a future request for 138 "combat wings" would in reality mark an increase of some 63 to 68 units, over the present 95 wing quota, for it would not include the 20 to 25 troop carrier wings which would certainly be part of the Air Force program.

The composition of the present 87 wing force has not been Navealed, but 78 of the wings have been identified in the present study. Of these, 26 are bomber wings, not all of which are under Strategic Air Command (5 strategic reconnaissance, 3 heavy bomber, 15 medium bomber, 3 light bomber); 38 are fighter wings, not all of which are under Tactical Air Command 4 tactical reconnaissance, 6 fighter escort, 11 fighter bomber, 14 fighter interceptor, and 3 fighter all-weather; and 14 are troop carrier wings. These wings are itemized below in the more detailed analyses of SAC, TAC, ADC, USAFE, FEAF, and the Alaskan and Caribbean Air Commands.

For wing distribution by commands, perhaps the best available indication is Aviation Daily's estimate, for the 95 wing force, that 40 will be Strategic, Spyroved Eq. Release 2004/67/28:CIA-RDP79R00971A000300020002-0

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STRENGTH

The strength of the AF depends upon aircraft, personnel, bases, supply, and their coordination.

Aircraft

Any estimate of the number and quality of the aircraft depends upon the criteria used. Even the total inventory in August 1951 of 13,500 planes of all types (a drastic reduction from the 22,000 aircraft of July 1949 and Symington's expectation [March 1950] of 21,000 on 1 July 1951) gives a false and over-optimistic impression of the AF's combat forces in-being. Of the 13,500, probably 8,500 consist of non-combat types and technically "obsolete" aircraft (B-26s, B-29s, F-47s, F-51s) and about 5,000 (at most) first-line, "modern" (built since 1 July 1948) combat types. The true strength of AF capabilities should be in terms of first-line combat craft - 4,742 (the total combat aircraft by types) to 5,000 (rough estimate of combat aircraft based on over-all production figures). Included are 677 bombers (plus 200 B-29 tankers) of which there are 153 B-36s (including 60 RB-36s [?]), 100 B-47s, 200 B-45s, and 222 B-50s. Not included are 1,000-1,500 B-29s, 1,000 of which were "in storage" and many of which have been withdrawn and renovated or converted to RB-29s and KB-29s, and an unestimated number of B-26s. About 4,000 (3,923) fighters (F-80, F-82, F-84, F-86, F-89, F-94, and F-95) are not yet obsolete (3-year life) and may be considered first-line and available 1 September 1951.

In types of aircraft, the AF is <u>under equipped</u> in first-line bombers, only 677 available for a T.O. & E. requirement of 1023 [-1077] for the 26 Bomber Wings identified as "in-being." The deficiency is made up with B-29s and B-26s, both technically defined as obsolete as of 1 July 1951, but active in August in Korea. The current concentration upon the production of B-47 and

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and B-57A models may bring the 26 Bomber Wings up to full complement by July 1952.

In fighter strength, the 3,923 aircraft (after deducting losses and 500 [?] F-80s made before 1948) exceeds the 2,862 aircraft prescribed for the 39 Fighter Wings identified; but this number does not provide even a 2-1 ratio of first-line aircraft to allow for spares, over-hauling, and operational losses.

The Troop Carrier and Transport aircraft in-being, if the estimate 1,046 is correct, seems more adequate. The 13 Troop Carrier Wings require 468 [-624] aircraft (whether 36 or 48 aircraft to each Wing), but the number 1,046 Transport aircraft includes Cargo aircraft, of which MATS has 4 Wings (not herein included in the 78 Wings identified) requiring 144-192 aircraft. Even when the MATS aircraft requirement is added (a total of 612-816), an ample number of Transports is available and no recourse to the 1223 U.S. Commercial Airline Fleet in service 31 December 1950 (the 1914 Paris Taxicabs for the AF) seems as yet necessary. However, 547 aircraft are old models (C-54, C-74, C-82) and only 507 (C-97, C-119, C-124) are modern. For paratroopers, 236 C-119s are available as first-line carriers.

In sum, with the possible exception of Transport aircraft, the strength of the AF, for the 78 Combat Wings identified, is marginal at best. Projected against the 87 Wing AF alleged to be "in-being," the discrepency between aircraft required and aircraft available becomes even greater. In quantity of aircraft, the AF does not appear to have sufficient capabilities to warrant an attack upon an enemy air force of the same (78 Wing) size in full complement.

Potentially, however, the current rate of aircraft production (and Wilson's optimism about 70-80% "rise" during July-December 1951) is significant. If the estimate of 3,162 aircraft (all services) of which the AF's share is Approved For Release 2004/07/28: GLA RDP79R00971A000300020002-0

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probably 2,000 aircraft or more) is correct, then much of the deficiency (at least in Fighters) may be overcome by 1 January 1952. However, Wilson's optimism of 16 August is hard to reconcile with the July statement from his office that "production of military aircraft had fallen over 20% behind schedule." In any event, it will probably not be until 1 July 1952 when 8,322 aircraft ought to be produced during FY 1951-52 that the alleged 87 Wing Air Force will be adequately equipped. As for the 95 Wing Air Force (the present goal) Secretary Finletter, himself, stated recently that when the 95 Wings are in-being in July 1952, they will not be fully equipped.

The popular estimate of 3,000 military aircraft produced during Calendar 1950 (stemming from the Aircraft Industries Association) seems high = 2600 to 2800 aircraft seems a more conservative figure. Numerous and various bottle-necks (tooling in particular) are admitted; and they presumably affect unevenly the estimates on the different types of aircraft tabulated below. Even if 3,000 aircraft were built in Calendar 1950, and, if the 4,990 aircraft predicted for Calendar 1951 materialize, both the total and the production rate per month will fall far short of Truman's stated goals. The estimate presented below calls for 666 aircraft per month in December 1951, in contrast to the A.I.A.'s prediction of 750 (9,000 aircraft per year) for December 1951. Without minimizing the tremendous potential of the U.S. aircraft industry (now reinforced by General Motors at Kansas City (F-84s) and Kaiser-Frazer Factories at Willow Run (C-119s) the conclusion cannot be avoided that AF equipment in planes required for a first-line 95 Wing (to say nothing of a 150 Wing) air force remains "on order" rather than "in-being." The so-called "obsulete" F-51s, B-26s, and B-29s have been a match for the Chinese to date; more than a match for the North Koreans; but until July 1952, the AF does not seem to be of strength in equipment, at least quantitatively, sufficient to undertake an

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aggressive war against a first-line air force of 87 or more fully equipped Combat Wings.

However, the current low rate of aircraft production, compared to the 96,000 military aircraft built in 1944, is a conscious part of Defense Mobilization policy. This policy stresses potential ability to produce more than the actual production of military requirements. For the Air Force, this highly rational policy offers the advantage of avoiding the "freezing" of aircraft type-models until the latest possible date before entering upon hostilities (as happened prematurely to the late German air force); on the other hand, it prevents having an air force of war strength in peace time which an aggressor nation ought to have at the moment it undertakes an offensive war. (Does this substantiate the USAF's claim to be a Defensive Weapon, and that it's second line of defense is Strategic, retaliatory bombing of enemy supply dumps and production centers?)

Defensively, the policy of developing production potential towards

Truman's goal of a 50,000-aircraft-per-year rate, involves a calculated risk
that the sircraft factories (including essential component parts) survive the

initial enslaught by an attacking air force of bembers and that the USAF in-being

is adequate to provide protection for nearly a year before truly "full" produc
tion can be attained. Such a defensive air force seems the immediate goal, and

even this seems unlikely to be attained before the spring or summer of 1952.

The current program envisages a peak annual production of from 18,000 to

20,000 aircraft during 1953/54 (1,500-1,600 aircraft per month) and then a

tapering off to 12,000-14,400 (1,000-1,200 aircraft per month) thereafter. The

year 1953/54, then, is the period when the USAF will be set to enter upon an

all-out aggressive war.

Another factor, however, is the alleged ability of B-50s and B-29s,
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as well as 8-36s and B-47s (and perhaps Fighter-Bombers) to deliver Atomic Bombs (now presumed to be of several sizes). The stockpile of Atomic Bombs, herein estimated at 1500 (600-2400) bombs of standard (Hiroshima) size, seems to warrant journalists loose assertion that two A-bombs are now more expendable than the 475 (plus B-29s) planes capable of delivering them. The development of smaller bombs (using less plutonium) may mean that the upper figure, 2400 units, is closer to the actual number of atomic bombs which, on 20 August (after our estimate was made) the Alsops (N.Y. Tribune, p. 17) declared might be multiplied "by a secret but certainly very significant figure."

Supply

Supply, other than aircraft, for the Air Force has not been investigated for this report. However, the estimate of U.S. capabilities in Chemical Warfare indicates a plentiful supply of petroleum products available in the Western Hemisphere. Metals provide a limitation upon production on a scale comparable to that of 1944 (96,000 military aircraft) according to Vandenberg; and not until 1953 will production of nickel, for example, be able to meet expected military needs. As against Military Requirements, the U.S. annual Production Capacity is estimated at 20% for steel ingots, 25% for aluminum, and 12% for copper. (For details of other metal shortages see Chemical Warfare, Part IX, C-2-b.)

Composition of AF Wings by Type of Aircraft

Bombers

Wings Type of A/C

Heavy B-36

Medium B-29, B-47, B-50

Light B-26, B-45

Fighters

Day Fighters F-47, F-51, F-80, F-84, F-86

All-Weather F-82, F-89, F-94

Reconnaissance

Strategic RB-29, RB-36, RB-47, RB-50

Tactical RF-26, RF-45, RF-47, RF-51

Troop Carrier

Heavy 0-51, 0-71, 0-97, 0-121

Medium 0-46, 0-47, 0-82, 0-119

Approved For Release 2004/07/28 : CIA-RDP79R00971A000300020002-0 STRENGTH: PERSONNEL

Air Force strength as of June 30, 1951, stood at 787,000 consisting of 106,500 officers and warrant officers and 687,500 airmen. This total represented an increase from 411,277 in June 30, 1950 (57,000 officers and 354,000 airmen), which means that personnel strength was increased by 49,500 officers and 333,000 airmen in the period of a year. Nevertheless, this total was 63,000 under the goal for fiscal 1951, which was 850,000. The reasons for this deficiency will be discussed under Airmen. Under the 95 wing program, personnel strength is expected to rise 1,061,000 by the end of fiscal 1952, and this force will consist of 136,000 officers and 925,000 airmen.

In addition, the Air Force employed 251,999 civilians as of June 30, 1951, and the projected number for June 30, 1952, is 319,547.

Officers. The officer corps of the Air Force at present consists predominantly of Reserve and Air National Guard officers whose service is, at least legally, involuntary. By 30 June 1952, it is estimated, in fact, that there will be approximately 23,000 Regular and 113,000 non-Regular officers. Of these non-Regulars, 74,000 will be from the Organized Reserve, and Air National Guard, and as such are legally liable for 24 months service, though the Air Force has announced that it will release them after 21 months; 39,000 will be from the Unorganized or Volunteer Reserve, which is liable for 17 months service. The fact that so large a proportion of officers, now on involuntary service, will be elegible to retire after a short term of service presents a considerable problem. The Air Force is relying on its ability to induce Reserve and Guard officers voluntarily to remain beyond their required terms of service. At the same time, the supply of officers is to be kept up by increasing the ROTC program and the CCS production in order to reduce the demands on the present reservists, a large proportion of whom are veterans of World War II. A total of 6,875 AROTC students were scheduled to graduate during the fiscal 1951, all of whom were commissioned and ordered to extended active duty and 9.282 commissioned graduates are expected during fiscal Approved For Release 2004/07/28 : CIA-RDP79R00971A000300020002-0 1952. Also, the Air Force receives 25 per graduates from West Point

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Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0 and Annapolis, but this provides only some 350 officers per annum.

b) Airmen. In fiscal 1952, the Air Force plans to build its supply of airmen from a strength of 680,500 to a strength of 925,000. At the same time that it is making this increase, it must also find replacements for 125,000 men whose service expires or is terminated, and it will require a total procurement of 370,000 for the year, or 30,800 per month, to attain the desired strength.

For its supply of airmen, the Air Force has depended primarily upon a system of voluntary four-year enlistments. The June 30 total of 680,500 airmen consisted of 601,000 such enlistees, plus 52,800 from the Organized Reserve and Air National Guard and 26,700 from the Volunteer Reserve. The calling up of reserves is, for the present, virtually complete, and only about 7,800 Reservists will be called in fiscal 1952, which means that the burden of procurement falls almost completely upon enlistments.

Prior to March, 1951, the growth of the Air Force was not restricted by enlistments, but by "the extremely limited mobilization base or capacity of the Air Force in terms of housing and facilities." The low capacity of the basic training camps made it necessary to control the personnel input very carefully. Early in 1951, enlistments so far outran capacity that during January acceptance of recruits was halted in some areas and restricted in others. But in the spring, enlistment declined sharply, falling to 16,000 in April and 14,000 in May. In June it rose to 24,000 and in late June and early July was running at the rate of 1500 per day, but the increase came so late that as of June 30, the Air Force was 63,000 men short of the strength planned at that time. The system of four-year enlistment is so advantageous in terms of effectiveness and economy that the Air Force is "exerting every effort to remain on an enlistment basis" but it has been officially stated that, "we shall not hesitate to resort to the draft if it becomes necessary."

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The average age of the airmen recruited in fiscal 1951 was twenty years, and the Air Force placed considerable value upon their stamina, eagerness, and mental alertness.

Another significant factor about the personnel is the high preportion which is intensively trained. The Air Force estimates that more than 50% of its enlasted personnel requires at least six months of technical training, and this does not include higher skills in maintenance, radar mechanics, and electronics.

show the numbers of officers and men assigned to each of the principal activities of the Air Force, as of June 30, 1951.

Directly associated with combat wings	227,000			
Assigned to combat services	94,000			
In training	197,000			
Air transport	63,000			
Station maintenance and security	55,000			
Air Depot support	39,000			
Radar and Air Defense	39,000			
Assigned to command administration at				
headquarters above wing level	24,000			
Research and Development	16,000			
Transients, patients, prisoners	31,500			

officers and airmen would be overseas (including Alaska) by June 30, 1951. But on May 19, 1951, the Department of Defense released the information that one-third of the Air Force Personnel was outside the country. This was about 253,000. By contrast with this figure of one-third, it is interesting that the Air Force

estimates that only about one-fourth of its personnel (265,000 out of 1,061,000) will be overseas by June 30, 1952. It seems unlikely that both the May 19 figure and the figure for 1952 are correct, for they would indicate that while the total personnel of the Air Force is increasing by 34%, the personnel overseas will be increasing only 4.7%. This is entirely inconsistent with the heavy emphasis on overseas bases for the coming year (see Strength: Installations and Bases), and there seems to be no possible basis for reconciling the two figures, unless calculations were based on an assumption that the Korean War would be terminated.

The Civilian employees of the Air Force numbered 223,799 in the Zone of the Interior, and 28,200 overseas as of 30 June 1951. They are expected to number 274,703, interior, and 44,844, overseas, at the end of the present fiscal year.

STRENGTH: INSTALLATIONS AND BASES

The Concept of an "Active Major Installation." Air Force figures on bases are rendered ambiguous by two factors: 1) an installation does not necessarily include an air field, for warehouses, laboratories, basic indoctrination centers, etc., are installations. 2) Air Force officials distinguish between active major installations and total installations — for instance, an auxiliary field attached to a regular Air Force base is probably not a "major" installation. Frequently, numbers of installations are mentioned without indication of which type is intended.

The important problem in this connection, however, is not merely the uncertainty as to whether a given base is "major" or "non-major." It is in the fact that the Air Force has quietly changed its concept of an active major installation, apparently in somewhat the same way that it has changed and is changing its concept of a wing (see above). The term remains undefined and the reason for the change in meaning cannot be explained except by drawing inferences, but it is possible that the Air Force raises its standards for an active major installation or for a wing in order that it may increase its strength at a steeper rate than is apparent when it presents to Congress its requests for additional wings or additional installations.

In February, 1950, the Air Force testified that it would have 169 active major installations for its 48 wing force as of 30 June 1950 (81st Congress, 2nd Session, House, Appropriations Committee Hearings, Dept. of Defense, Pt. 3, p. 1550); in April 1951, the Budget, in asking for 215 active major installations as of 30 June 1952, declared that this would be an increase of 115 over those active two years previously, which is equivalent to saying that there were 100 active major installations as of 30 June 1950 (Budget for the Military Functions of the Department of Defense for the Fiscal Year 1952,

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p. 121). The anonomaly is further indicated by the Air Force statement in February, 1950, that it would operate a 48-wing force as of 30 June 1951 on 154 active major installations, and its statement at present that it is operating an 87-wing force on only 160 active major installations - despite the fact that at least 50 Air Force bases are known to have been activated since the Korean War began.

Bases and Installations at Present. Secretary Finletter declared on 5 July 1951 that the base structure is "the weakest of the three pillars of the Air Force," the other two pillars being planes and trained personnel. The deficiency of overseas stations may have been primary in causing him to make this statement, as is suggested by the recent announcement of new bases in North Africa and of negotiation for new bases in Spain, as well as by the known plan to concentrate on overseas bases in fiscal 1951-52. It is believed that USAF bases in Bavaria would be quickly overrun if the Russians moved against Western Europe.

But there is another consideration which accentuates the deficiency of bases. This is the fact that jet planes need runways of 10,000 or 12,000 feet and they need heavy-duty landing strips, whereas the longest runways for propeller-driven planes of World War II were about 8,000 feet, with pavement too light for the planes of today. Jets also need larger and more rapid refuelling systems. The high-performance base today is a complex community with extensive and varied facilities and is very unlike many of the World War II bases with their temporary equipment.

The Air Force was operating 160 active major installations and 232 total bases as of 30 June 1951, according to its own count, and is building to totals of 215 and 309 by the end of fiscal year 1951-52. The present study has identified 212 Air Force Bases and other air fields at which the Air Force Approved For Release 2004/07/28 TOTAL P79R00971A000300020002-0

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operates within the United States, and 56 overseas. From this total of 268, it would appear that the term base, as used by the Air Force in its count of 232, does not include all fields at which the Air Force operates; perhaps municipal fields where the Air Force shares facilities, and auxiliary fields attached to Air Force Bases are not included.

The build-up of bases during fiscal year 1950-51 was primarily in the Zone of the Interior, and emphasis was laid upon the creation of training facilities. It is said that a total of 47 "major active installations" will be required to support the training program for the 95 wing force, as compared with 21 for the 48 wing force. Furthermore, of 48 new or reactivated bases planned in December, 1950, 34 were to be in the United States and only 14 overseas.

For the coming year, however, the build-up will be primarily overseas. The Air Force plan, to increase from its present 160 active major installations to 215 by 30 June 1952, will involve the deactivation of 8 bases, and the activation of 63, for a net increase of 55. (The 8 bases to be deactivated are part of a group of at least 39 bases which were activated on an interim basis when ANG squadrons and AFR units were called up in recent months. Many of them were not suitable for normal use, and were put into operation only on an emergency basis, and a considerable number have already been deactivated.) Of the 63 bases to be activated, only 15 will be in the United States and 48 will be overseas.

For fuller detail on bases, command to which assigned, length of in Subsection IV runways, etc., see the appended Tables, showing 1) List of Air Force Airfields in the United States, 2) List of Air Force Airfields overseas, and 3) List of Air Bases to be Activated in the United States during fiscal year 1951-52.

For the fiscal year 1951-52, the Air Force is to have 32 depots and allied installations (see AMC) 2004/07/28 CLARD P9R00971A000300020002-0

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7. DEPLOYMENT

As noted above, AF strength on 1 July 1951 consisted of 87 wings of which 78 have been identified in this study.

Strategic wings comprise 30 of these 78. Nine of these are in SAC's 8th AF and are based at Carswell AFB, Walker AFB, Forbes AFB, Lake Charles AFB, Bergstrom AFB, Biggs, AFB, Rapid City (South Dakota), and Davis-Monthan AFB. Bight are in SAC's 15th AF and are based at March AFB, Travis AFB, Fairchild AFB, Castle AFB, and George AFB. Seven are in SAC's 2nd AF and are based at Barksdale AFB, McDill AFB, Hunter AFB, Turner AFB, and Ramey AFB (Puerto Rico). Another wing is at Lockbourne AFB. Four wings, temporarily detached from service in the preceding Air Forces and therefore not to be added to their total, are in USAFE's 3rd AF, based in Great Britain. Three wings are in FEAF's 20th AF, based on Okinawa, and one fighter-escort is in FEAF's 5th AF

Tactical wings comprise 31 of these 78. Eight of these and part of a ninth are in TAC's 9th AF and are based at Pope AFB, Langley AFB, Shaw AFB, Clovis AFB, George AFB, and Memphis Municipal Apt. Nine are in TAC's 18th (Troop Carrier) AF and are based at Donaldson AFB, Miami International Apt., Memphis Municipal Apt., Sewart AFB, Bergstrom AFB, Mitchell AF3, and one squadron is known to be at Alexandria (Louisiana). Eight and part of a ninth are in FEAF's 5th AF which is largely tactical, and which also contains three fighter-interceptor wings and one fighter-escort wing additionally. Four are in USAFF's 12th AF, based at Wiesbaden, Landsberg, Furstenfeldruck, Neuberg, Rhein-Main, and Erding in Germany. One is under Caribbean Air Command.

Air Defense wings comprise 17 of these 78. Thirteen of these wings, all fighter-interceptors, are under ADC, six in the Eastern Defense Force, three in Central, and four in Western. Also three fighter-interceptor units are under the command of FEAF and one is under Alaskan Air Command. Of the

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three all-weather wings, one is at McGuire AFB, one at Selfridge AFB, and one at McChord AFB.

Considered functionally, deployment follows:

- Five strategic reconnaissance wings: one in SAC's 8th AF, two in its 15th AF; one in its 2nd AF; one at Lockbourne AFB, Air Force unidentified.
- Three heavy bomber wings: two in SAC s 8th AF; one in its 15th AF.
 Also the 43rd Recon. Wg. in 8th AF is heavy.
- Fifteen medium bomber wings: four in SAC's 8th AF; four in its 15th AF; four in its 2nd AF; three in FEAF's 20th AF. Three wings, either unidentified, or from the above fifteen, are on rotational duty in USAFE's 3rd AF.
- Three light bomber wings: one in TAC's 9th AF; one in FEAF's 5th AF; one with its squadrons divided between the 9th and the 5th.
- *Four tectical reconnaissance wings: two in TAC's 9th AF; two in FEAF's 5th AF.
- *Six fighter escort wings: two in SAC's 8th AF; one in its 15th AF; two in its 2nd AF; one in FEAF's 20th AF.
- *Eleven fighter bomber wings: four in TAC°s 9th AF; four in FEAF°s 5th AF; two in USAFE°s 12th AF; one in Caribbean Air Command.
- *Seventeen fighter interceptor wings including three all-wather wings: six in ADC's Eastern Defense Force; three in its Central; and four in its Western; three in FEAF's 5th AF; one in Alaskan Air Command.
- *Fourteen troop carrier wings: nine in TAC's 18th AF; two in FEAF's 5th AF; and three in USAFE's 12th AF.

The 78 wings in question are explicitly identified in the sections dealing with the various commands.

* These figures diverge slightly from figures in Subsection III, Aircraft, A Inventory, Table I, but the differential does not alter the calculations there, for differential figures above and in that table add up to the same totals of wings using Jets, F=32, and F=51 aircraft.

Combat Value.

Strategic capabilities. The two-fold mission of strategic aviation — retaliatory bombing in any location on the globe, alleged to be a defensive measure, and long-range reconnaissance over land and sea depends primarily upon the quality of the B-36 and the B-47. The AF considers the B-36 a disappointment; the B-47 they believe to be the "world's greatest" bomber. The B-36, however, remains the sole type of a/c capable of inter-continental missions from the Z.I. and return. Recently acquired overseas bases and those projected in Spain, if tenable under attack, should make of the B-47 a superior strategic weapon.

At present, the military value of strategic bombing is a subject under debate within the AF itself, with the other Armed Services, and the civil government. Regardless of the policy decision ultimately taken, the AF has the capability to carry out strategic bombing with its 93 B-36s and perhaps 100 B-47s; also, for shorter ranges, B-29s and B-45s are able to deliver the standard (Hiroshima) atomic bomb and presumably the new smaller models. The current stockpile of Atomic Bombs is estimated (Part VII below) at 1500 (600-2400) units of standard size or perhaps a greater number (the 2400 maximum) of smaller versions. Recourse to atomic bombs may offset the recent discounting of the effectiveness of strategic bombing in Germany during W. W. II because of the atomic bomb's far greater destructive force. Whether the waste in the destruction of nonmilatary materials and civilians offsets the atomic bomb's greater officiency in destroying military objectives seems a moral-political, more than a military question.

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accurately to within 50-100 feet of the target. If the principle of strategic bombing of armament factories, supply depots, railroads, and military installations, is accepted as militarily efficient, then the AF seems prepared and moderately well-equipped to conduct this type of warfare.

However, until the B-36s and B-47s are challenged in actual combat by first-line enemy fighters, it will be impossible to judge whether they actually are capable of getting over a far distant target - and beating their way home to safety. Anti-aircraft guided missiles are an additional - and untested - hazard for the bombers. The estimated 677 bombers (excluding the B-29) does not provide the AF leeway for a high (50) percentage of losses in the initial stages of a war.

The same risks (enemy fighters and guided missiles) apply to strategic reconnaissance bombers, notably the RB-36, again the only intercontinental type. Unless fighter escort is provided from overseas bases, possibility of losses seems great. In their photographic equipment, notably the K-48 camera of which 2,283 units are on procurement for 8 types of bomber and for the RF-80, the strategic reconnaissance planes are of high quality though apparently limited in number. Probably strategic reconnaissance and strategic bombing would be most effective in the early stages of a war, before the enemy had learned, through actual combat, how to cope with the several advantages the new high altitudes, speeds, and mechanical devices are reputed to afford.

Tactical Capabilities. Gen. Wolfinberger, at Southern Pines,
23 August 1951, redefined the tactical mission and divided it into 4 objectives:

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- 1) to achieve air superiority over the enemy;
- 2) to bomb enemy supply lines and concentrations behind the front;
- 3) to provide close ground support within 1,000 yards of the ground front lines; and
- h) air defense (perhaps 3d in order of priority).

This declaration of function draws sharply the issues raised between Army, Navy and Marines (who declined to participate in the Southern Pines Exercises) and within the AF itself. New atomic weapons - anti-personnel bombs (Aviation Daily, 27 Aug. 1951) - suggest a revolution in function and combat value of tactical aviation. Vandenberg spoke (26 Aug.) about "retardation" of the battlefield, or destruction of large enemy forces by tactical a/c carrying atomic weapons.

The basic issue in the inter-service controversy, which remains a discuptive force, is control. Wolfinberger and the AF advocate the present system of cooperation and coordination between the separate Army and AF commands, instead of the Army's preference, operational control of all close-support planes by Army and Corps commanders. The success of the Marine Air Wing in Korea is cited in support of the Army contention. But the other 3 aspects of the tactical aviation mission suggest that the AF takes a more comprehensive view of the role of air power in military tactics.

The anticipated use of atomic weapons by tactical air forces also changes its position vis-à-vis strategic aviation which alone has heretofore been identified with atomic warfare. However, the present combat
value of tactical aviation depends upon the number and quality of both
a/c and pilots. Unless the "new" atomic bombs are reduced to about 1,000
lbs. in weight (a size which fighter a/c cap faring 1 atomos 36652662 use will
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until the B-57A, the British Canberra being made by Martin, is produced in mass. Only when a substantial number of light bombers are available will the new tactical objectives be realizable in force.

Still short of a total number of fighter a/c and pilots equal to that of a first-rate enemy air force, the total effectiveness of U. S. tactical aviation seems inferior to the high quality of the AF's seasoned pilots and best a/c. Asst. Sec'y of Defense Lovett states that the F-86 theoretically is the equivalent of Russia's MIC-15, and actual combat experience in Korea confirms this generalization. However, some writers consider that the superior airmanship of U. S. pilots against the Chinese is what offsets the MIC's slight technical advantages. Perhaps the current installation in the F-84F of the British Sapphire jet engine, developed by Armstrong-Sidely and now being produced by Wright Aeronautical Corp. and Buick Div. of General Motors, may create a balance in favor of this fighter.

Even though the inventory of first-line fighters exceeds numerically present wing requirements, plus 15% needed for spares, the margin is less than 2-1, and the combat value of tactical aviation, until "more perfect" jets and an array of light bombers are available, does not now [1 Sept. 1951] seem to warrant entering upon war against a first-rate airforce of the same wing size. However, when the AF has enough a/c capable of applying atomic weapons to tactical warfare, a revolution in ground warfare may occur. A large-scale, mass ground force offensive, such as China has tried and is anticipated if Russis tries to "over-run" Europe with manpower, might be arrested. In such event, the importance of tactical aviation would be enhanced, and a decline in the relative value of retaliatory and strategic bombing expected. This might even withdraw modern warfare from Hitlerian "total war" against civilians and restore it to the professional armies and their beautowed for Release 2004/07/28: CACATATARO0971A000300020002-0

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Air Defense Capabilities. The Air Defense Command's mission is to provide for the defense of the U.S.; to organize, administer, equip, train, and prepare for combat the units and combat crews of the AF assigned or attached; and to carry out joint air defense training and exercises. The objective of the fighter aircraft defense is to ward off enemy attacks, or to contain enemy a/c, for which purposes component units are located at strategic bases throughout the Z.I. Sixteen Wings, of the 79 identified, belong to ADC, and these include 3 All-Weather Fighter Wings, and 13 fighter interceptors, 75 a/c per wing, 1200 a/c in all. The specific types of a/c actually assigned to the ADC Wings have not been ascertained, except in 3 instances:

52d. Fighter All-Weather, McGuire AFB, N.J.: F-94s
325th. Fighter All-Weather, McChord AFB, Washington, to guard
Hanford Atomic Reactors: F-94s

115th Fighter-Interceptor, Scott AFB, Illinois: F-51s.

The 95 Wing AF, according to Aviation Daily, will assign to Air Defense
20 Wings with, presumably, a prescribed total of 1500 a/c as against the current 1200.

Air Defense capability depends upon 1) the quantity of high quality fighter a/c, and 2) the ability to get the planes into the air in time to ward off or to curtain enemy attackers. Successful defense involves 3 elements: an efficient aircraft warning and control system; fighter-interceptor a/c with a high rate of climb capable of engaging the enemy before he approaches the target; and anti-aircraft to put up a barrage over vital areas. To effect an efficient interlocking of these components requires an intricate system of communications able to transmit messages without Apptevent do Release 2004/07/28: CIA-RDF 79R00971A000300020002-0

The Aircraft Control and Warning System consists of 1) a Radar Screen (for the efficiency of which see Part VI) and a Ground Observer Corps. On 2 March 1951 Secretary Finletter said that the construction of the Radar Screen will be reasonably complete for the continental U. S. during 1951, but that the Alaskan Radar "will follow along next year."

Radar installations are to be located at 26 airports in the Z.I., and others will be established at Annette Island, Fairbanks, Alaska, and Honolulu.

The Ground Observer Corps requires 500,000 civilian volunteers (of which 400,000 were still needed in April 1951) in addition to 12 "groups" of regular AF troops and 3 ANO outfits numbering 25,000 AF Radarmen manning 97% of the system. Volunteers are assigned to the East and West Coasts, the Great Lakes, the North Central, and the Southeastern Areas of the U.S. Observation posts numbered, in April, 8,000 with an additional 11,400 programed and 24 new filter centers to be added to the 26 then in operation. The function of the ground observers is to compensate for the "line-of-sight" limitation of the radar stations.

The Filter Centers are located in cities (a vulnerable location) providing good telephone connections; while the observation posts are located approximately 8 miles apart and will be staffed by a minimum of 25 civilian volunteers on duty 2 hours each a day. A Filter Center has 5 officers and 10 airmen on duty to provide training, but it will be operated by the 500 volunteers assigned thereto.

The procedure is for the observer to telephone an "Aircraft Flash" call to his filter center; there several observers' data are plotted on grid maps and telephoned to a Ground Control Interceptor Unit of the ADC.

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Filter Centers set up by November 1, 1950 are:

Bangor, Maine Manchester, New Hampshire New Haven, Connecticut Syracuse, New York Albany, New York White Plains, New York Buffalo, New York Trenton, New Jersey Baltimore, Maryland Harrisburg, Pennsylvania Pittsburgh, Pennsylvania Richmond, Virginia Canton, Ohio

Columbus, Ohio Grand Rapids, Michigan South Bend, Indiana Chicago, Illinois Green Bay, Wisconsin Minneapolis, Minnesota Seattle, Washington Spokane, Washington Portland, Oregon Oakland, California Pasadena, California Santa Ana, California

Filter Centers set up between November 1, 1950 and July 1, 1951 are:

Roanoke, Virginia Roleigh, North Carolina Charlotte, North Carolina Atlanta, Georgia Savannah, Georgia Jacksonville, Florida Mami, Florida Knoxville, Tennessee Nashville, Tennessee Laxington, Kentucky Louisville, Kentucky Springfield, Illinois Des Moines, Iowa

Omaha, Nebraska North Platte, Nebraska Bismark, North Dakota Fargo, North Dakota Rapid City, South Dakota Sioux Falls, South Dakota Casper, Woming Helena, Montana Billings, Montana Boise, Idaho Sacramento, California

Secretary Finletter expressed doubt about the adequacy and effectiveness of the Aircraft Control and Warning System; and popular writers eshibit an even greater skepticism. Despite the Radar Screen, the ellaborate system of filter centers, excellent telephonic communications, and the Ground Observer Corps, there is grave doubt whether swift-flying enemy a/c can be reported rapidly enough to enable Defense a/c to ward them off the target. Once off the ground, the F-9k, with which the 3 All-Weather Fighter Wings are equipped, has a 7,350 f.p.m. rate of climb which should provide first-line fighter defense. Each of the Eastern, Central, and Western Air Defense Forces has one such wing. Approved For Release 2004/07/28 : CIA-RDP-3R00971A000300020002-0

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It may be remarked that U. S. fighter-interceptors are all equipped primarily for atmospheric, rather than stratospheric, operations and that a high altitude jet interceptor is badly needed.

Also the problem of gaining altitude rapidly enough to intercept an enemy at 40,000 or 50,000 feet makes the potentialities of guided missiles applicable to air defense capabilities.

During the June 1951 air defense exercise of the Aircraft Control and Warning System involving 210,000 civilian volunteers, mock enemy bombers "pierced the nation's air defenses during the first 24 hours," and the exercise disclosed many weaknesses in the system.

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STRATEGIC AIR COMMAND

Hq. - Offut AFB, Omaha, Nebraska.

CG. - Lt. Gen. Curtis E. LeMay.

SAC is responsible for the conduct of operations in any part of the World, at any time, either independently or in co-operation with land or naval forces. It is equipped with long-range bombers, reconnaissance and fighter aircraft, to permit global air operations. Its organization includes three Air Forces in the United States, and numerous units assigned temporarily to the overseas commands (q. v.).

Three wings of SAC have been equipped with the B-36 heavy bomber, and a fourth is being converted to B-36s, if the plans explained by General Vandenberg in March, 1950, to the Senate Appropriations Committee, have been fulfilled. The wings involved are probably the 7th, 97th, 43rd, and 92nd Bomb. Wings. The strength of these wings is uncertain, somewhere between 18 and 30 planes per wing, probably nearer the lower figure.

The remaining wings of SAC which we have identified are each probably equipped with about 45 B-29s or B-50s. No B-47 units have yet been identified as such, but the 306th Bomb. Wing and the 301st Bomb. Wing may be jet units.

SAC has units operating with the 20th Air Force in FEAF and with the 3rd Air Force in England. A new interim base has been established at Rabat, French Morocco, where there is an airstrip but not an operational base, and at least five major North African bases are under construction. Eighteen B-29s and 6 F-80s have already been sent to North Africa and 1,000 airmen have arrived to man Novasseur Air Field. The Headquarters for the 5th Air Div. is at Rabat, commanded by Maj. Gen. Archie J. Old, Jr.

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A new technique of radar bombing has made it possible for the B-29s of FEAF to give close tactical support to ground forces.

For further information pertinent to SAC, see other sections and tables of this study as follows: 1) statement of strategic capability,
2) statement on strength in terms of aircraft, showing estimated bomber strength, 3) statement and tables on aircraft performance, including bomber performance, and 4) tables of bases, showing which bases this study has identified as SAC bases.

8th Air Force. Hq., Carswell AFB, Fort Worth, Texas. CG. Maj. Gen Samuel Anderson.

19th Air Div., Hq., Carswell AFB.

7th Bomb Wg., Carswell AFB.
B-36s. Complete with all its service groups.

3903 RBS Gp., also at Carswell AFB.

509th Bomb. Wg., Walker AFB, Roswell, N. Mex. CO, Col. William H. Blanchard.

21st Air Div., Hq., Forbes AFB, Topeka, Kan. CG., Brig. Gen. David Hutchinson.

% th Bomb. Wg., Forbes AFB. CO, Col. Conrad F. Necrason.

44th Bomb. Wg. moving from March AFB, Cal., to Lake Charles AFB, La., during August and September, 1951.
CO, Col. Carlos J. Cochrane.

44th Bomb Gp.

66th Bomb Sq.

67th Bomb Sq.

68th Bomb Sq.

44th Field Maintenance Sq.

4109th Organizational Maintenance Sq.

4109th Armament and Electronics Maintenance Sq.

42nd Air Div., Hq. Bergstrom AFB, Austin, Texas.

27th Fighter Wg., Bergstrom AFB.

Spent first six months of 1951 on temporary duty in Korea.

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12th Fighter Escort Wg., Bergstrom AFB.
CO, Col. C. F. Swinson.
F-84s.
Now in the United Kingdom for training.

Division Number not identified.

97th Bomb. Wg., Briggs AFB, El Paso, Texas.
CO, Col. H. C. Doeney.
B-36s.
Has complete complement of service groups, including an aerial refueling squadron of KB 29s.

28th Strategic Recon. Wg., Rapid City, S. Dak. RB-36s.

43rd Bomb. Wg. (Med.), Davis-Monthan AFB, Arizona.
B-50s.
This wing made first non-stop round-the-world flight.

15th Air Force, Hq., March AFB; San Francisco, Calif.
CG., Maj. Gen. Emmett O'Donnell.
Dep. CG, Brig. Gen. James E. Briggs.
The 15th AF contains 2 wings of B-50s, 3 of B-29s, and 2 which are being

The 15th AF contains 2 wings of B-50s, 3 of B-29s, and 2 which are being converted from B-29s to 3-36s. One of these converted units will be a bomb. wg. and the other n strategic recon. wg. The 15th will have, and perhaps now has, two fighter wings of its own.

12th Air Div., Hq., March AFB, Calif. CG., Brig. Gen. Wiley D. Ganey.

22nd Bomb. Wg., March AFB. Has had training in England.

106th Bomb. Wg., March AFB.

5th Strategic Recon. Wg., Travis AFB, Calif. B-36s.
Includes 1st and 23 Strat. Recon. Sqdns.

9th Bomb. Wg., Travis AFB, Calif.

57th Air Div., Hq., Fair hild AFB, Washington. CG, Brig. Gen. C. J. Bondley, Jr.

72nd Bomb. Wg. (Med.), Fairchild AFB
CO, Col. Kenneth B. Hobson.
At present, this unit is being converted from B-29s to B-36s.

lllth Strat. Recon. Wg., Fairchild AFB.
Now being equipped with B-29s.
Formerly a Penusylvania National Guard unit.

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93rd Bomb. Wg., Castle AFB, Cal.
The identification of this wing is not certain.

131st Fighter-Bomber Wg., George AFB, Calif.
This is an ANG unit. Since its assignment to the 15th AF it may have been designated a Fighter-Escort Wg.

2nd Air Force, Hq. Barksdale AFB, La. CG., Maj. Gen. Joseph H. Atkinson.

Dep. CG., Brig. Gen. Fay R. Upthegrove.

The 2nd Air Force has been designated to receive B-47 wings as they are formed.

47th Air Div., Hq., Barksdale AFB, La. CO, Brig. Gen. Henry K. Mooney.

301st Bomb. Wg., Barksdale AFB.

376th Bomb. Wg. (Med.), Barksdale AFB.

6th Air Div., Hq. McDill AFB, Fla. CG, Maj. Gen. Frank A. Armstrong.

306th Bomb. Wg., McDill AFB.

(Army, Navy, Air Force Journal, 28 July, 1951, p. 1366, lists a 305th Bomb. Wg. which is probably an error for 306th.)

2nd Bomb. Wg. (Med.), Hq., Hunter AFB, Ga., but now in England for training. CO, Col. John C. Jennison, Jr. % 96th Bomb. Sqdn.

108th Fighter Wg., Turner AFB, Ga.

31st Fighter Escort Wg., Turner AFB, Ga.
Recently returned from 6 months training (early in 1951) in
United Kingdom.

55th Strat. Recon. Wg., Ramey AFB, Puerto Rico.

Air Force Number not Identified.

91st Strategic Recon. Wg., Lockbourne AFB, Ohio.

2. TACTICAL AIR COMMAND

TAC is charged with training and operating air units which assist ground and sea forces in gaining military objectives. It is equipped with light bombardment, fighter, and troop carrier aircraft. In addition to the two air forces - the 9th and the 18th - which it operates in the United States, TAC also has a number of units assigned to the overseas command (q.v.).

The 9th AF contains nine wings identified in this study, of which two are light bomber, two tactical reconnaissance and five fighter bomber (one light bomber on temporary duty in Korea). The 18th AF also contains eight identified wings, all of which are troop carrier.

Among overseas commands, the 12th AF, with headquarters at Wiesbaden, is a tactical force containing two fighter bomber wings and three troop carrier wings. In the Far East, the 5th AF is largely tactical, and it contains two light bember wings, four fighter bombers, one tactical reconnaissance wing, and two troop carrier wings, as well as three fighter interceptor wings.

the atom bomb has been developed in such a way that it can be used against ground forces in battle (see discussion of tactical capabilities). Another factor likely to enhance the position of TAC is the development of troop transports which, it is said, "are capable of landing in any open field suitable for a paratroop drop, with weapons and other equipment too delicate to be parachuted." These have been publicly mentioned as going to the Troop Carrier Command," which would probably mean the 18th Air Force.

About 400 aircraft from the 18th and 9th Air Forces were scheduled to participate in the air-ground maneuvers called Exercise Southern Pines during August 1951. This will be similar to the simulated airborne attack called Exercise Swarmer of last year, but on an even larger scale. From the 9th Air Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0

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Force, the 20th, the 123rd, the 137th, and the 140th Fighter-Bomber Wings, the 47th Light Bomber Wing, and the 118th Tactical Reconnaissance Wing were expected to be engaged; and from the 18th Air Force, the 314th, the 375th, the 434th, the 435th, the 443rd, and the 516th troop carrier wings were to be included (Army, Navy Air Force Register, 14 July, p. 3).

To achieve as effective air-ground coordination as possible, TAC has started an Air-Ground Operations School at Southern Pine, North Carolina, for training personnel from all the services in coordinated operations. One hundred and twenty-five students are now attending, and the facilities will be developed to handle some 6,000 students a year. Col. William M. Gross commands this activity. Another means of strengthening coordination is the development of a mobile unit of TAC called the Joint Air-Ground Instruction Team (JAGIT), which is now touring Army and Air Force installations giving instruction in coordinated tactical operations.

For further information pertinent to TAC, see other sections and tables of this study as follows: 1) statement of tactical capability, 2) statement on strength in terms of aircraft, showing estimated light bomber, fighter, and troop carrier aircraft, 3) statement and tables on aircraft performance, and 4) tables of bases, showing which bases this study has identified as TAC bases.

Hq. Langley AFB, Virginia.

CG. Lt. Gen. John K. Cannon.

9th Air Force, Hq., Pope AFB, North Carolina.

CG. W. K. Wolfinbarger.

47th Bomb. Wg. (Light), Langley AFB, Virginia.
47th M. & S. Gp.
4400th Combat Crew Train. Gp.
122nd Bomb. Sqdn. (Light)
Approved For Release 2004/2750th Crew Train.

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4400th Maintenance Sqdn. 4400th Recon. Crew Train. Sqdn. 4400th Bomb. Crew Train. Sqdn.

3rd Bomb. Wg. (Light), Langley AFB, Virginia.
Two sqdns. of this wing are B-45s, two are B-26s. The two B-26 sqdns. are on temporary service in Korea.

140th Fighter-Bomb. Wg., Clovis AFB, New Mexico.

Moving from Buckley NAS, Colorado.

120th Fighter-Bomb. Sqdn.

187th Fighter-Bomb. Sqdn.

191st Fighter-Bomb. Sqdn.

Consists of former National Guard Units.

--- Tactical Air Div., Provisional, Hq., Shaw AFB, South Carolina.

CO., Col. P. K. Morrill

20th Fighter Bomber Wg., Shaw AFB.

Note: The 20th Fighter Bomber Group was recently reported at Marston, Kent.

363rd Tact. Recon. Wg., Shaw AFB.

116th Fighter-Bomb. Wg., George AFB, California. F84s.
Soon to go to FEAF.

118th Tact. Recon. Wg., Memphis Municipal Apt, Tennessee. Has sqdns. at Birmingham, Alabama.

123rd Fighter-Bomb. Wg.

137th Fighter-Bomb. Wg.

Also connected with the 9th Air Force are the following Tow Target Squadrons.

lst Tow Target Sqdn., Briggs AFB, Texas.

2nd " " , Newcastle, Delaware.

3rd " " , Sewart AFB, Tennessee.

4th " " , George AFB, California.

18th Air Force, Hq., Donaldson AFB, South Carolina.

CG, Maj. Gen. Robert W. Dougless

435th Troop Carrier Wg., Miami International Apt., Florida.

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375th Troop Carrier Wg., Donaldson AFB.
CO, Col. Lance Call.
An AFR unit from Pittsburgh, called to active duty 15 Oct. 1950.
57th Troop Carrier Sqdn.

516th Troop Carrier Wg., Memphis Municipal Apt., Tennessee.

314th Troop Carrier Wg., Sewart AFB, Tennessee.
16th Troop Carrier Assault Sqdn.
314th Maint. Sqdn.

313th Troop Carrier Wg., Bergstrom AFB, Texas.

Note: The 433rd Troop Carrier Wg., an AFR unit from Cleveland, was under the command of the 18th AF after being recalled to active duty on 15 Oct. 1950, but has recently been moved to Germany. See USAFE.

316th Troop Carrier Wg.

434th Troop Carrier Wg.

514th Troop Carrier Wg., Mitchell AFB.

125th Fighter-Bomber Sqdn., Alexandria, Louisiana.
F-84s.

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3. AIR DEFENSE COMMAND

ADC is organized primarily to provide for the air defense of the United States. Component units are strategically located at bases throughout the United States to ward off or contain enemy attack. These units are equipped with fighter-interceptor aircraft, including, in the case of at least three wings, all-weather fighters.

ADC contains three defense forces for the United States: Eastern, Central, and Western. Of the thirteen fighter-interceptor wings identified in this study, six were assigned to Eastern, three to Central, and four to Western. Two all-weather wings are known to be assigned to Eastern, one to Western. Three other fighter-interceptor wings have been identified in the 5th Air Force of FEAF.

In addition to the use of interceptor aircraft, air defense requires a warning system, in which the primary component is a radar screen, supplemented, to some extent, by corps of volunteer observers organized in the Aircraft Warning Service.

The radar screen is organized tactically and geographically into divisions. On the perimeter of each division is a radar-equipped Ground Control Intercept Station (GCI), and behind the GCI's is an Air Defense Control Center (ADCC). It is the function of the GCI, upon spotting a plane, to check the Civil Aeronautics Authority's schedule to determine whether it is a scheduled flight, and, if not, to warn the fighter-interceptor base directly, which will fly interception immediately. This system of direct warning conduces to efficiency insofar as radar is efficient, and new radar detectors, with their 150-mile beams and omni-circctional detection, are far more efficient than earlier radar. But the radar screen is far from being completely equipped with this new apparatus, and at present, much World War II radar is in use.

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Even when the new installations are complete, there will still be gaps, resulting especially from the fact that radar beams do not curve with the earth's surface and low-flying craft may escape radar detection.

Because of this temporary lack of equipment and this permanent deficiency in the 100% effectiveness of the equipment, the warning system also contains its volunteer personnel. This personnel is organized in two groups, firts, solitary ground observers stationed at posts eight miles apart and reporting to (second) those in the filter centers, of which there is one for about every 300 observers. The filter center checks the reports from observers and when it receives three reports of the same plane, it then warns the fighter—interceptor base to fly interception at once. On the face of it, this seems a dangerously slow method of warning against fast-flying aircraft, and air defense exercises which were held in June showed that enemy planes could get over important industrial positions with relative ease.

Another element in air defense, in addition to the interceptor force and the warning system, is the availability of effective anti-aircraft weapons. Most of the guns currently available are believed to be 90 and 120 millimeter guns of World War II. These might force an enemy to operate at high altitudes, but they could do little more. In this phase of defense, development of guided missiles is peculiarly important.

For further information pertinent to ADC, see other sections and tables of this study as follows: 1) statement of defense capabilities, 2) statement of strength in terms of aircraft, 3) statement and tables on aircraft performance, and 4) tables of bases, showing which bases this study has identified as ADC bases.

Hq., Ent AFB, Colorado Springs, Colorado.

CG, Lt. Gen. Benjamin W. Chidlaw. Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0

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Eastern Air Defense Force, Hq. Stewart AFB, New York.

CG, Maj. Gen. Fred H. Smith.

25th Air Defense Div., Mitchell AFB, New York.

50th Ftr.-Int. Wg., Otis AFB, Massachusetts.

33rd Ftr.-Int. Wgs., " "

101st Ftr.-Int. Wg., Burlington AFB, Vermont.
134th Ftr.-Int. Sq.
764th AC & W Gp. (PP), Ft. Ethan Allen, Vt., Allied Unit.

132nd Ftr. Wg., Dom AFB, Maine.

30th Air Div., Selfridge AFB, Michigan.

56th Ftr.-Int. Wg., Selfridge AFB, equipped with F-94 all-weather Ftrs.

52nd Ftr.-All-Weather Wg., McGuire AFB, New Jersey. CO, Col. Ernest H. Beverly. F-94s:

113th Ftr.-Int. Wg., New Castle County Apt., New Castle Delaware.

1st Ftr.-Int. Gp., Griffiss AFB, New York (moved to George AFB, WADF.)

Squadrons whose wing assignments are unidentified:
71st Ftr.-Int. Sq., Greater Pittsburg Apt., Coraopolis, Pa.
136th Ftr.-Int. Sq., Niagara Falls, Muni. Apt., New York
148th Ftr.-Int. Sq., Dover AFB, Delaware.

A new EADF base is to be built at Youngstown, Ohio.

Hq., Kansas City, Missouri (temp.), Grandview, Missouri (perm.)

Central Air Defense Force.

31st Air Div., Wold-Chamberlain Apt., Minneapolis, Minnesota.

133rd Ftr. Wg., Holman Muni. Apt., St. Paul, Minnesota.

115th Ftr.-Int. Wg., Scott AFB, Illinois. F-51s.

175th Ftr.-Int. Sq., Sioux Falls Muni. Apt., South Dakota.

33rd Air Div., (Def.), Tinker AFB, Oklahoma City, Oklahoma.

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Western Air Defense Force.

Hq., Hamilton AFB, California.

28th Air Div. (Def.), Hamilton AFB, California.

542nd AC & W Gp., Hamilton AFB, California. 667th Aircraft Warning Sq., Hamilton, California. 774th AC & W Sq., Hamilton, California.

544th AC & W Gp., Norton AFB, California.

78th Ftr.-Int. Gp., flying interceptors at San Francisco.

188th Ftr.-Int. Sq., Long Beach Muni. Apt., California.

1st Ftr.-Int. Wg., George AFB, Victorville, California. An ANG unit.

25th Air Div. (Def.), Silver Lake AFB, Everett, Washington.

CG, Brig. Gen. Clinton D. Vincent.

325th Ftr.-All-Weather Wg., McChord AFB, Washington. CO, Col. T. Alan Bennett. 325th Maint. & Supply Gp. 325th AB Gp.

81st Ftr.-Int. Wg., Hq. Larson AFB, Moses Lake, Washington.

116th Ftr.-Int. Sq., Geiger Field, Spokane, Washington.

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MILITARY AIR TRANSPORT SERVICE

MATS was created 1 June 1948 by action of the Joint Chiefs of Staff, to consolidate the former Air Transport Command and the Naval Air Transport Service into a single air transport service for the military establishment. The command includes both Air Force and Navy planes and personnel, but is under direct supervision of the Chief of Staff of the Air Force, although the Navy contingent of MATS reports to the Chief of Naval Operations.

The Transport Service of MATS is organized in three divisions: the Atlantic Division, with headquarters at Westover AFB, the Continental Division, with headquarters at Kelly AFB, and the Pacific Division with headquarters at Hickam AFB, Hawaii.

The scale of MATS operations is indicated by the fact that, during the year ending June 1, it airlifted 400,000 passengers and 60,000 tons of cargo. It has performed two important operations, first the Berlin Airlift and more recently the trans-Pacific Airlift (see map of MATS routes in Chart VII).

The scale of operations of the Pacific Airlift has been impressive. During the first year of the Korean War (to 29 June 1951), the Airlift transported some 91,500 men, mostly troops, across the Pacific, as well as 20,600 tons of cargo and mail, and it brought back 28,000 wounded to the U.S. To achieve this result, the lift was flying 742,000 ton miles, or 252,000 plane miles a day.

This was on the routes from either McChord AFB, Tacoma (via Anchorage and Shemya in the Aleutians) or Travis AFB (via Honolulu and Wake or via Honolulu, Johnston Island, Kwajalein and Guam) to Tokyo. The lift has operated under a separate command, the West Coast Air Lift Task-Force, headed

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by Brig. Gen. Henry C. Kristofferson. For purposes of the lift, MATS at the start of the Korean campaign, diverted 50 Douglas C-54s from its Atlantic and Continental Divisions, and it later added 75 more C-54s and the 61st and 62nd transport groups; but the lift has also had some Canadian and Belgian planes, and very heavy reliance has been placed upon commercial planes chartered for the trans-Pacific route. In fact, commercial carriers hauled more than 55% of the outbound tonnage, while MATS planes hauled 35% and United Nations planes hauled just under 10%. In terms of personnel, chartered planes hauled 63%, MATS planes 28% and United Nations planes 9%.

Che reason why MATS could not handle a larger proportion of this traffic is that it is maintaining numerous other commitments throughout the world, including heavier shipments to Europe and a greater bulk of equipment for SAC's overseas forces, and, most of all, the actual combat lift from Japan into Korea.

The Combat Lift, which is under command of FEAF, became vital after U.N. forces broke out of the bridgehead in South Korea. With the railway system negligible, the roads extremely bad and the harbors far below expectation, air transport became the primary answer to the Korean supply problem. To apply the answer effectively, a Combat Cargo Command was organized as a provisional division of the FEAF and Maj. Gen. William H. Gunner, who had commanded both the "Hump" and the Berlin lift operations was temporarily detached from MATS to lead it.

The Japanese terminus of CCC, connecting with the trans-Pacific lift, was at Tachikawa AFB, outside Tokyo. Headquarters were placed at Ashiya AFB on the northernmost tip of Kyushu Island just 100 miles across the sea from Pusan.

Ashiya was the base for the 314th troop carrier wing (Fairchild C-119

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Packets), the 21st Troop Carrier Squadron (Douglas C-47s) and Marine Squadron VMR-152 (Douglas R5Ds). Tachikawa was the base for the 314th Troop Carrier Wing (Curties C-46s) which operated chiefly within Japan.

Probably the most outstanding single mission of CCC was the Pyong-yang paradrop, in which C-119s and C-47s dropped some 6,000 troops of the 11th Airborne Division's 187th Airborne Regiment. Figures up to March, 1951, indicated that this Command had lifted 326,951 Korea-bound troops and medical evacuess, and that the total tonnage it had handled was 165,949.

See organizational diagram of Pacific Airlift and Combat Cargo Command, Chart VIII.

Apart from its cargo-carrying responsibilities MATS has several other important functions. It operates the Air Rescue Service, the Flight Service (charting and control of military aircraft flights within the U.S.), the Air Weather Service (for supplying weather information and forecasts on a world-wide basis) and the Airways and Air Communications Service (maintaining radio and other communications facilities).

Hq., Washington National Apt., Gravelly Point, Virginia. CG, Lt. Gen. Laurence S. Kuter.

Continental.

In April, the first Air Resupply and Communications Wing was organized at Mountain Home AFB, Idaho. Its mission involves not only aerial resupply of military units but also dropping psychological warfare material.

Units:

1254th Air Trans. Sq., Washington Nat'l. Apt.

1703rd Air Trans. Gp., Brookley AFB, Alabama. CO, Col. Glen R. Birchard.

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1274th Air Trans. Sq.
Handles instruction in the C-97A

1705th Air Trans. Sq., McChord AFB, Washington. CO, Col. Richard Bromiley.

RCAF 426th Trans. Sq. also ass'd here.

1704th Air Traf. Sq., Travis AFB, California.

1600th Air. Traf. Sq., Westover AFB, Massachusetts.

1905th Airways & Air Comm. Service Sq., McChord AFB, Washington.

18034e AACS Gp.

1923rd AACS Sq., Kelley AFB, Texas.

[1701st Air Trans. Gp. ? Great Falls AFB, Montana ?]
1701st Med. Gp., Great Falls

Pacific Division

Dep. Comm. and Comm., AF Activities, Pacific, Brig. Gen. H. Q. Huglin.

1503rd Air Trans. Wg., Haneda AB, Tokyo. APO 226. CG, Brig. Gen. Aubry L. Moore.

1500th Air Trans. Wg., Hickam AFB, Hawaii. APO 953, SF.
Air Trans. Sq. 8, Hickam Field, Hawaii.

(Awarded Flying Safety trophy in July for third consecutive time.)

Atlantic Division

1605th AB Gp., Lagens Field, Azores.

1602nd Air Trans. Wg., Wiesbaden, Germany. 1603rd AB Gp., Wheelus Field, Tripoli. 1261st Air Trans. Sq., Wheelus Field.

1604th AB Gp., Kindley AFB, Bermuda. APO 856, NY.

1414th AB Gp., Dhahran, Saudi Arabia.

1933rd AACS Sq., Harmon AFB, Newfoundland. APO 864, NY.

Air Rescue Service

lst Air Rescue Squadron, McDill AFB, Florida.
2156th AR Unit (TTU), " " " " Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0 2nd AR Sq., Clark AFB, Philipper

Air Rescue Service (cont.)

3rd AR Sq., Korea. Lt. Col. Klair E. Back, CO.
The 3rd AR Sq. has naturally been the most active of late.
They have rescued over 1800 UN personnel from behind enemy
lines. Besides H-5 and H-19 helicopters, they are using the
SA-16 amphibian in this work.

4th AR Sq., Hamilton AFB, California.

5th AR Sq., Westover AFB, Massachusetts. Flight "D" - Selfridge AFB, Michigan.

6th AR Sq., Pepperell AFB, Newfoundland.

7th AR Sq., Wheelus Field, Tripoli, Libya.

9th AR Sq., Bushy Park, England.

10th AR Sq., Elmendorf AFB, Alaska.

11th AR Sq., Hickam AFB, Hawaii.

Air Weather Service. Hq. Andrews AFB, Maryland.

CG, Brig. Gen. W. O. S. Senter. Chief of Intell. Div., Lt. Col. Clarence E. Roache.

30th Weather Sq., Kimpo AB, Korea.

5. CONTINENTAL AIR COMMAND

Continental Air Command was reorganized in 1949 and its Tactical
Air Command and Air Defense Command were made separate major commands; thus ConAC
today is almost exclusively a reserve organization. Headquarters are at Mitchell
AFB, Hempstead, L. I., but plans are now being made to move to Grandview, Missouri in 1953. Major General Willis Hale is the commanding general of ConAC.

ts mission is the organization, administration and training of the reserve
units under its command, the Air National Guard, the Air Reserve, the Air Force
Reserve Training Centers, the Explorer Scouts and the Civil Air Patrol. These
activities are administered through the four regional continental air forces:
First Air Force, northeastern U.S., Hq. Mitchell AFB, N.Y., Maj. Gen. James
F. Hodges, Commanding; Tenth Air Force, north-central U.S., Hq. Selfridge AFB,
Michigan, Maj. Gen. Harry A. Johnson, Commanding; Fourteenth Air Force, southeastern U.S., Hq. Robins AFB, Macon, Ga., Maj. Gen. Charles E. Thomas, Jr.,
Commanding; Fourth Air Force, western U.S., Hq. Hamilton AFB, California,
Maj. Gen. William E. Hall, Commanding.

Air National Guard

During Fiscal Year 1951, the ANG was reorganized under a Combat Wing Base plan to provide 427 units, both combat and supporting, grouped into 27 combat wings. (Budget, FY 1952, p. 125). At the time the activities of FY 1951 were being planned, it was expected that 7,167 officers and 42,333 airmen would take part in the program (81:2, House Approp., Def. Approp., Pt. 3, p. 1671), but as of September 1950, there were only 44,728 officers and men in the ANG organized into 72 fighter squadrons, and 12 bomber squadrons (AIDig., September, 1950, p. 5). Fraining at technical schools and in on-the-job training projects was provided for 2,131 officers and 3,058 airmen in the FY 1951 budget (81:2, House Approved For Release 2004/07/28; CIA-RDP79R00971A000300020002-0

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Approp., Def. Approp., Pt. 3, p. 1671). 113 ANG installations were maintained during FY 1951, and training was carried on with approximately 2,500 aircraft. Most of the training aircraft of the ANG, however, are obsolete; at the beginning of FY 1951, only 211 ANG planes were jets (116 of them obsolescent F-80s) and 2,308 were types such as the C-47, F-47, and F-51. (81:2, House Approp., Def. Approp., Pt. 3, p. 1679).

As of March 27, 1950, the following units were training with jet aircraft:

196th Ftr. Sqdn., Calif., F-800

159th " " Fla., "

158th " " Ga., "

132nd " " Me.,

173rd " " Nebros

126th " " Wis., F-80A

142nd " " Del., P.84C

116th " " Spokene, Wash., F-84C

127th " Wichita, Kans.,

171st " Detroit, Mich.,

121st " " Md.,

166th " " Ohio

138th " " N. Y., F-84B

Most of these units have probably been called to EAD by now.

22 of the 27 combat wings of the ANG and several supporting units have been called to EAD. By the end of 1951 the AF will have called up 19 non-flying units of the ANG, including 11 AC & W Groups, 5 Signal Light Construction companies and 3 Communications squadrons (ARF Rev., May 1951, p. 7).

During FY 1952, training of the 5 remaining wings (which include 18 separate combat squadrons plus supporting units) will continue on an intensified Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0

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schedule. The Budget for 1952 provided pay and allowances for 2,214 officers and 14,104 airmen for inective duty training, as well as 15 days active duty training for 2,665 officers and 19,900 airmen. It is thus seen that the strength of the reserves left on inactive service in the ANG is extremely small.

The following units of the ANG have been identified, but some of them may be in active service by now.

1st Air Force

514th Trp. Carr. Wg., Mitchell AFB, N.Y. Brig. Gen. Arthur L. McCullough, CG

512th Trp. Carr. Wg., Delaware Brig. Gen. E. H. Molthan. CG

67th Ftr. Wg., Massachusetts Brig. Gen. Lyle E. Halstead, CG

107th Ftr. Wg., Hq. Niegara Falls, N.Y.
Col. Robert Kirsch, CO
137th Ftr. Sq., Westchester County
138th Ftr. Sq., Hancock Fld., Syracuse
139th Ftr. Sq., Schenoctady
Unit being equipped with F-84s.

121st Ftr. Squadron, District of Columbia Lt. Col. Willard W. Millikan, CO Unit flies some veriety of jets.

104th Ftr. Squadron, Maryland Lt. Col. Robert L. Gould. CO

4th Air Force

403rd Trp. Carr. Wg. (M)
Brig. Gon. Chester E. McCarty, CG

lst Ftr. Wg., George AFB, Victorville, Calif.

14th Air Force

105th Ftr. Squadron, Nashville, Tenn.

125th Ftr. Squadron, Tulsa, Oklahoma

Air Reserve

The AF Rexerve activities are split into five programs: the Mobilization Assignment program, the Corollary Unit program, the AF Reserve Center Program, the Volunteer Air Reserve Training Unit program and the Extension course program. The Mobilization Assignment program provided training during FY 1951 for 12,523 Reserve Officers, who train individually on pay status about once a week and go on active duty for two weeks once a year. The training takes place on AF bases, where they report regularly for instruction in their particular job. 4,178 pilots in this program receive flying proficiency training in Reserve aircraft. Others use regular Air Force planes.

During FY 1952, no flight training will be furnished. Mobilization assignments will be used to augment T/O & E and non-T/O & E units to war strength or to meet war-time requirements. It is contemplated that by the end of FY 1952, 2,040 Reserve Officers and 5,617 airmen will have mobilization assignments augmenting T/O & E units to war-time strength, and 7,351 Reserve officers and 11,747 Reserve airmen will have mobilization assignments to augment mon-T/O & E units to war-time strength.

The Corollary Unit program is composed of Reserve units formed to duplicate particular units of the AF, so that they can replace the regular unit at once in the event of deployment. At the beginning of FY 1951, there were 198 corollary units (5185 officers, 10,262 airmen) and it was anticipated that by the end of FY 1951 there would be only 72 units (1621 officers, 3425 airmen). During FY 1952 the AF anticipates that an average of 72 corollary units will be in operation (year-end assigned strength 1,367 officers, 3,136 airmen).

The Air Force Reserve Training Center program has an aggregate strength of 68,627 officers and men, organized into integrated wings and

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The reservists report to the centers as a unit at stated intervals and go through operational exercises. The 2486th AFTRC at Atterbury, Indiana is a typical unit; all of the centers have not been located, but there are two each at long Beach, California and Chicago, Illinois, and one at Bedford, Massachusetts, Mitchell AFB, New York, Westover AFB, Massachusetts, Hamilton AFB, California, Portland, Oregon and Godman AFB, Kentucky. 25 units were so trained during FY 1951, of which 5 were light bombardment wings and 20 were troop carrier wings. (All the information above is from 81:2, House Approp., Def. Approp., Pat. 3, pp. 1632-1638.) The following units have been identified:

459th Bomb. Group (M), including the 759th Bomb. Sq.

Davis Monthen AFB, Arizona. Equipped with E-30s & B-29s.

The planes used by this unit are probably berrowed from SAC.

463rd Trp. Carr. Wg., Hensley AFB, Dallas, Texas.
Now in the process of being called to EAD.

438th Trp. Carr. Wg., Cmaha, Nebraska.

These units may now be on active duty, but they have not been identified in any other command. According to the Herald Tribune of 13 July, 25 reserve wings have been called up since the outbreak of the Korean War, thus it may be that all the organized wings have been called up. This seems more likely since the ARF Review of July 1951 speaks of the last seven wings having been called up on 1 May (514th Wg., 443rd Wg., 434th Wg., 63rd Wg., 89th Wg., 419th Wg., 440th Wg.), and the Air Force has no program for the Air Force Reserve Training Center in FY 1952.

The Volunteer Air Reserve Waining Unit program is the most inactive segment of the Reserve. The strength of this organization was about 48,000 at the beginning of FY 1951; it was organized in 449 VAR training units. They train individually at AF installations, but their training is sporadic

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and scant since it is voluntary and they are not paid for it. ConAC is this swamer presenting an indectrination course for 1,900 VARTU officers in preparation for the expansion of the VARTU program from the present 100 groups, 454 squadrons to 160 groups, 800 squadrons (ARF Rev., July 1951, p. 5). By the and .: July 1971, a total of 28,917 VAR officers had been recalled to EAD.

The recall for 1952 will involve only 19,000 officers, including ROTC trained man, and 6,848 airmen. VART units are scattered throughout the US; two of them are the 91487h VART Group in Minnesota and the 9181st VART Group at Atlanta, Ceorgia (with subsidiary squadrons at Monroe, Ia. and Datona Boach, Fla). The Air Force plans to increase the number of VAR units to 960 by the end of FY 1952, and to offer active duty training tours of 15 days to 7,500 selected Reserve Officers of VAR.

The Extension course program offers correspondence course training to 75,000 reservists from any of the above-mentioned groups.

Virtually all the effective strength of the Reserve has been called up, but the plans for FY 1352 call for regrouping the remaining £25,000 officers and 75,000 airmen into som; 30 wings. These will be mainly paper units, for the budget for 1952 does not provide any flying for the Reserve, because of the lack of aircraft. During the FY 1951, the Reserve had only 925 planes, most of them out-of-date, but the AF has decided that during the expansion to 95 wings, new aircraft cannot be diverted to the Reserve. It is hoped, however, to reconstruct the ANG to a strength of 27 wings of the T/O & E type with full equipment (Air Force, June 1951, p. 45).

Air Reserve Officers Training Corps

This program, carried out in non-military colletes and universities, is an important part of the Al officer procurement system. It is being expanded along with everything class as the AF builds toward 95 wings. In October, 1950, therapproved for Release 2004/07/28: CIA-RDP79R00971A000300020002-0

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institutions. It is estimated that by Cetober, 1951, there will be 128, 676 students enrolled (82:1 House Armed Services Comm., # 4, Univ. Mil. Train., p. 560) and the Budget for FY 1952 increases the number of particelepating institutions to 187. The program should produce about 12,875 graduates during FY 1952. The Af commissioned graduate procurement objective is 27,750 annually.

Civil Air Patrol

There were 1423 CAP units in August 1951, including 52 wings, 1313 groups, 603 squadrons and 637 flights. The personnel includes 45,220 senior members and 32,990 juvenile cadets.

The AF is setting up a program for training its own engineers under the command of ConAC. The aviation Engineer Force has been created with headquarters at Wolters AFB, Mineral Wells, Texas. Army engineers are undoubtedly being used to help set up the program. ConAC has acquired half of the Beale Bombing and Gunnery Range at Marysville, California from ATRC for training its engineers.

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6. AIR MATÉRIEL COMMAND

The principal responsibility of the Air Matériel Command is procurement, apply and fourth echelon maintenance for the entire Air Force. The headquarters for the Command are at Wright-Patterson AFB, Dayton, Ohio (2750th AB Wing maintains the base functions here), and it is commanded by Lt. Gen. Edwin W. Rawlings. The director of Supply, Maintenance and Services is Maj. Gen. George W. Mundy. Some of the functions of AMC have recently been taken over by the new Air Research and Development Command, and some were earlier given to Air Proving Ground, but AMC retains its extensive depot chain and its procurement system.

The United States has been divided into six air procurement districts:
The Northeastern Air Procurement District, 14-17 Cour Square, Boston, Mass.;
The Eastern Air Procurement District, New York City; The Central Air Procurement District, Detroit, Michigan; The Southern Air Procurement District, Fort Worth,
Texas; The Midcentral Air Procurement District, Chicago, Illinois; and The
Western Air Procurement District, Terminal Annex, Los Angeles, California
(CO, Brig. Gen. William M. Morgan). These districts are broken down into 23
regional offices; there are also 28 residencies in larger plants.

To fulfill its supply and maintenance functions, AMC has a chain of eight huge depots scattered through the country:

WRAMA, Warren Robins AFB, Macon, Georgia.

MOAMA, Brookley AFB, Mobile, Alabama.

MAAMA, Olmetead AFB, Middletown, Pennsylvania.

The Middletown depot is now considered inadequate for the volume of work required of it, and a new base is being planned nearby at Lancaster, Pa., to supplement its facilities. \$74 million will be needed for the proposed construction. The money has not yet been appropriated by Congress.

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OCAMA, Tinker AFB, Oklahoma City, Oklahoma.

Steps are being taken to make this the center for the overhaul and modification of the B-47. The B-36 modification program now being performed at Tinker will be moved to Kelly.

SAAMA, Kelly AFB, San Antonio, Texas.

Overhaul center for the R-4360 engine which powers the B-36 and B-50 (ANAFJ, 4 Aug., p. 1405).

SBAMA, Norton AFB, San Bernadino, California.

OOAMA, Hill AFB, Ogden, Utah.

CG, Brig. Gen. A. H. Gilkeson. Hill AFB has been designated the world center for the supply and maintenance of the F-89, the Northrop Scorpion. The 25th Λ/D Wg. and the 2947th Dep. Tng. Sq. stationed here.

??AMA, Mather AFB, Sacramento, California.

In addition to these depots, which are headquarters of whole material areas in addition to having specific functions such as those of Tinker and Hill, there are several specialized depots and one storage depot in AMC:

862nd Spec. Depot, Dayton, Ohio.

830th Spec. Depot, Memphis, Tennessee (Mallory Spec. Depot)

822nd Spec. Depot, Maywood, California (Cheli AF Spec. Depot)

831st Spec. Depot, Shelby, Ohio (Wilkins AF Spec. Depot)

832nd Spec. Depot, Topeka, Kanaga.

829th Spec. Depot, Gadaden, Alabama.

Binghamton Spec. Depot, Binghamton, New York.

Lynn Haven Petroleum Storage Area, Panama City, Florida.

New construction at all these depots has been approved by the House Armed Services Committee. Recently the civilian staff at Binghamton Spec. Depot was reduced by more than 100 workers, who presumably are being replaced by military personnel.

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7. AIR HESEARCH AND DEVELOPMENT COMMAND

operating until May 1951. Its headwarters were at first at Wright-Patterson AFB, Ohio, but they have recently moved to Baltimore. Temporary offices were set up in the Sun Building in Baltimore, but plans are being made to move to a permanent location at the Friendship International Airport. ARDC is commanded by Lt. Gen. Earle E. Partridge; his Vice Commander is Brig. Gen. Alfred R. Maxwell and his Chief of Staff, Brig. Gen. Ralph P. Swofford, Jr. The Director of Research and Development is Brig. Gen. Donald N. Yates and the Commanding Geneneral of the Air Development Force at Wright Field is Brig. Gen. Fred R. Dent.

ARDC was formed by splitting off the research activities of Air Matériel Command and adding to them several other miscellaneous development projects from other parts of the Air Force. Now all such activities are under this single command, whose mission is to investigate and develop new meapons, equipment and techniques for all branches of the AF.

Seven major bases and laboratories have been placed under this command: Wright Air Development Center, Wright AFB, Ohio; Rome Air Development Center, Griffiss AFB, New York; AF Missile Test Center, Patrick AFB, Florida; Holloman AFB; Alamogordo, New Mexico; Arnold Engineering Development Center, Tullahoma, Tennessee; Cambridge Research Center, Cambridge, Massachusetts; AF Flight Test Center, Edwards AFB, Muroc, California.

Wright Air Development Center. AMC turned over its Engineering Division, its Flight Test Division, its All-Weather Flying Division and its Office of Air Research to ARDC when it was formed. These activities remain at Wright Field and have been grouped together as the Air Development Force of ARDC.

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The facilities include wind tunnels, climate testing buildings and other aero-

AF Flight Test Center, Edwards AFB, Muroc, California. 2759th Experimental Wing. Virtually all the final testing of AF X-planes and other flying equipment is made here.

Rome Air Development Center, Griffiss AFB, Rome, New York. The principal research center for the AF's electronics equipment. 2751st Experimental Wing.

Cambridge Research Center, Cambridge, Massachusetts. Given over to research on specific problems of a scientific and theoretical nature, including electronics.

Armold Air Development Center. This research center has been opened only recently, but \$100,000,000 have been authorized by Congress for building it into the most important of the AF test facility for high altitude jet engines. Facilities will include an 8° x 8° supersonic wind tunnel and 15° x 15° hypersonic gas dynamics wind tunnel, capable of simulating speeds up to 3500 mph. The entire Center is expected to be completed by fall of 1953, but many of the facilities are in operation now.

AF Missile Test Center, Patrick AFB, Florida. This base has been in operation for some time, known as the Long Range Proving Ground or the Banana River Project. Maj. Gen. William L. Richardson commands this installation, whose main function is to operate a long flight-test range and provide all facilities for pre-flight and flight-testing of guided missiles which are passing through research and development stages. The flight-test range extends from Cape Canaveral almost 5,000 miles southeast over the Atlantic. Stations for collecting data on the performance of the missiles are at: Point Jupiter, north of West Palm Beach; Grand Bahama Island (by arrangement with the British);

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and other radar-equipped, data-collecting stations are being established on San Salvador and Mayaguana, Bahamas, and on Puerto Rico. V-2 type rockets are tested here in horizontal flight, and in at least one case the Eumper rocket was tested with the two-stage WAC Corporal attached (Ordnance, July-August, p. 158). The 4800th Guided Missiles Wing operates the facilities at Patrick.

Holloman AFB, Alamogordo, New Mexico. This center is principally a testing center for guided missiles, and it has recently been put under the command of the AF Missile Test Center at Patrick AFB. Holloman AFB is used mainly for short-range testing and for vertical altitude testing. The 6540th Missile Test Wing and the 3089th Experimental Group are stationed here. In 1952, there will be a 10% increase in ground tests and up to a 600% increase in launching certain specific missiles.

Recently the House Armed Services Committee approved the authorization of some \$13,000,000 for expanding the research facilities at the following installations:

Langley Aeronautical Laboratory, Langley AFB, Virginia. To modernize the 7° x 10° wind tunnel and enlarge tunnel building. \$100,000 assigned to its subsidiary, Wallops Island Station.

Ames Abronautical Laboratory, Moffet Field, California. \$1,550,000 to modernize the 6° x 6° wind tunnel.

Lewis Flight Propulsion Laboratory, Cleveland, Ohio. \$1,805,000 for expanding research facilities for rockets and ramjets under high altitude conditions.

AF Flight Testing Center, Edwards AFB, California. \$4,323,000 for expanding the high-speed flight testing facilities. AF indicated that this request had top priority among these four. Most of the projects carried out

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by all these research activities are highly secret.

ARDC is perhaps involved also in the activities carried on jointly with the Navy at the Naval Auxiliary Air Station at El Centro, California.

Among these is a parachute testing facility.

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8. HEADQUARTERS COMMAND

Mesdquarters Command is the principal administrative or "housekeeping" agency for the high command of the Air Force. It is based at Bolling AFB, Washington, D.C., and is commanded by Brig. Gen. Morris J. Lee. Its activities are many and miscellaneous; it is the parent organization for USAF personnel on duty with embassies, air attaché offices, military missions and other special activities. It maintains the 1100th USAF Sp. Rept. Group at Sandia Base, New Mexico, for close liaison with the Special Weapons Command. The three major components of the Command are Bolling AFB, Andrew AFB, Maryland, and the USAF Special Activities Wing at Fort Myer, Virginia. As the service unit for the USAF high command, it provides aircraft and flying facilities for the proficiency flying required of all rated officers in the Washington area. Most of the flying is done from Andrews AFB (Flying, May 1951, p. 122).

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9. AIR TRAINING COMMAND

Air Training Command is charged with the individual and group training of USAF personnel. Responsibility ranges from the basic training and indoctrination of new recruits to extremely advanced training given to aircrewmen prior to permanent assignment with occupational units.

The importance of ATRC is greatly enhanced by the fact that the Air Force has a higher proportion of personnel with advanced training than any other service. This is a permanent factor, and there is, at present, a temporary factor contributing to the significance of ATRC: this is the fact that during the period of mapid build-up to 95 wings and of increased recruitment, an unusually high proportion of airm an are in training - basic or advanced. As of 1 July 1951, 25% of all Air Force personnel was assigned to training, while only 29% was directly associated with combat wings.

For basic training, the AF now has two regular installations, Sempson AFB and Lackland AFB, and a temporary installation at Sheppard AFB. It will open a third regular installation, tamp Shoemaker, during fiscal year, 1951-1952. The present basic course is eight weeks and the capacity as of 1 July was 40,000 (consisting of 11,000 at Sampson, 21,000 at Lackland, including 8,500 tents, and 7,000 at Sheppard AFB).

During fiscal 1951-52, the Air Force will phase out the tents at Lackland and the temporary installation at Sheppard, but will increase its facilities at Sampson and Lackland, and will assigne more man per unit space. These changes plus the opening of Sheemaker, will increase capacity to 92,500 at the end of the fiscal year. When this full capacity is reached, the basic course will be returned to its normal length of eleven weeks.

Advanced training is divided between the Flying Training Air Force

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and Technical Training Air Force.

For flying training, ATRC will operate thirty-four installations at the end of the fiscal year, as contrasted with 20 at the beginning. At the beginning of fiscal 1951-52, 4,000 men were in pilot training, and the number will be built up to 7,200 by the end of the year. Slightly less than 4,000 were in observer training and the number will be built up to 5,000. Specific schools and types of training are shown below.

For technical training in aircraft maintenance, engines, electronics, radio, etc., ATRC operates seven technical training schools listed below, and it also trains a portion of its personnel at civilian schools with which it has contracts. Between 30 June 1951, and 1952, the number of men in technical training at the AF's own technical training schools is expected to increase from 60,000 to 85,000 while approximately 45 civil contract training schools will carry a constant load of about 15,000, and Army and Navy schools about 400 or 500.

Many of the training programs require a long interval of time (e.g., the bombardment course is 36 weeks, and some of the courses extend over a year), but the time-lag in training is less retarding, in terms of build-up, than the time-lag on aircraft procurement and construction of bases. In February, 1950, General Edwards testified that personnel skill was lagging behind equipment in some fields, and especially in electronics. But it appears now that the Air Force's trained personnel is fully adequate for the available aircraft and facilities.

Hq. Scott AFB, Belleville, Illinois.

CG, Lt. Gen. Robert W. Harper.

Dep. CG, Maj. Gen. Kenneth P. McNaughton.

Flying Training Air Force.

Hq., James Connally AFB, Waco, Texas.

CG, Maj. Gen. Warren R. Carter.

Civilian companies are operating basic training pilot schools under contract

with FTAF at:

Greenville AFB, Mississippi.

Columbus AFB, Mississippi.

Spence Field, Moultrie, Georgia. 3302nd Tng. Sq., Spence Field, Georgia.

Bartow Field, Florida.

Hondo Apt., Texas.

Malden Apt., Missouri.

Bainbridge, Georgia.

Marana, Arizona.

Kinston, North Carolina.

Advanced Training Schools are at:

San Marcos AFB, Texas. Pilot Tng. \$409,000 appropriated for construction.

Williams AFB, Arizona. 3525th Plt. Ing. Wg.

Perrin AFB, Texas. 3555th Plt. Tng. Wg. (Bsc.)

Ellington AFB, Texas. 3605th Nav. Tng. Wg.

Randolph AFB, Texas. \$36,000,000 authorized for construction.

Goodfellow AFB, Texas.

Reese AFB, Lubbock, Texas.

Bryan AFB, Texas. CO, Col. Jas. C. McGehee. A jet training base. \$5.4 million authorized for construction.

Approved For Release 2004/07/28 -RDP79R00971A000300020002-0 Tyndall AFB, Florida. 3625th Tng. Wg.

Pinecastle AFB, Florida. \$25 million construction program in progress.

Craig AFB, Alabama.

Mather AFB, California.

CO, Brig. Gen. Julius K. Lacey.

Preflight training for B-47 crews. Course 43 weeks long.

2 classes have gone through.

Nellis AFB, Las Vegas, Nevada.

Probably a bombardier school.

Luke AFB and Auxiliaries, Luke, Arizona.

Williams AFB, Arizona

Vance AFB, Enid, Oklahoma

Bombardment course is now 36 weeks.

Technical Training Air Forces.

Hq., Keesler AFB, Biloxi, Mississippi.

CG, Maj. Gen. C. C. Chauncey.

When at full strength, will have 160,000 officers and men. Bases and schools at:

Keesler AFB, Mississippi.

Radar-Electronics School.

32 week course. Now training 300 students a day. 3380th Tech. Tng. Gp.

Chanute AFB, Rantoul, Illinois.

3345th Tech. Tng. Gp.

Officers school in A/C Repair and Maint.

E M school for Electric Mechanics.

" " " Hydraulic

" " Instrument

" " Power Plant "

" " Propeller

3499th Mobile Ing. Gp. At Chanute. Now training instructors to train AF personnel in pilotless a/c.

Scott AFB, Belleville, Illinois.
Communications school for officers.

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Lowry AFB, Colorado. 3415th Tech. Tng. Wg.

Officers school in Aerial Photography

Armament and Turrets Budget and Fiscal

Classification and Assgmt.

Intelligence Photo Interpreter Statistical Control

Supply

E M School

Supply Armament

Sheppard AFB, Texas.
Engine Mechanics School.
\$43. total cost of base.
3750th Tech. Tng. Wg.

Fort F. E. Warren AFB, Wyoming.

Amarillo AFB, Texas.

Under construction. Total cost will be \$36 million.

To be Engine Mechanics School.

Indoctrination Bases.

Lackland AFB, Texas.
3700th WAF Tng. Gp.

Sampson AFB, New York.
CG. Brig. Gen. Norris B. Harbold.

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10. AIR PROVING GROUND COMMAND

The Air Proving Ground has headquarters at Eglin AFB, Valpariso, Florida, and is commanded by Maj. Gen. Bryant L. Boatner. Eglin covers over 500,000 acres and has extensive facilities for testing virtually any piece of AF equipment under simulated combat conditions. Not only equipment, but techniques and procedures are tested and criticized by the 10,000 men who run the proving ground, matters as diverse as the sub-zero performance of the F-86, the efficiency of electric timepieces and the proper technique for blind, bad-weather fighter interception of attacking bombers. (Flying, May 1951, p. 96).

In February 1950, the 550th Guided Missile Wing was stationed at Eglin (81:2 House Appropriations Committee, Def. Approp., Pt. 3, p. 1390), but since that time Guided Missiles have been turned over to the Air Research and Development Command and this unit may have moved either to Patrick AFB or to Holloman AFB or perhaps it remains at Eglin as an isolated ARDC unit.



12. SPECIAL WEAPONS COMMAND

Headquarters are at Kirtland AFB, Albuquerque, New Mexico. Commanding General, Brig. Gen. John S. Mills.

SWC has as its primary mission the handling of the atomic bomb. It works in close cooperation with the AEC installations in New Mexico and is the sole Air Force representative in the atomic program. Close liaison is of course maintained with Strategic Air Command and Air Matériel Command, as other interested parties in the supply and use of atomic weapons, but SWC is charged with the testing of sighting equipment, figuring the trail and other pertinent data for the trajectory of the atomic bomb, and checking out the planes and crews who will drop the bombs. SWC is evidently more security conscious than any other command, for almost no real information about its units and its operations has been published. An article in Flying for May 1951 contains virtually all that is publicly known about this command.

The 4930th Test Spt. Group is stationed at Kirtland, and the base at Sandia Base, New Mexico, is also under the command of SWC. Headquarters Command maintains two Sp. Rept. Groups at Sandia Base, the 1097th and the 1100th.



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MAJOR COMMANDS:

Overseas

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FAR EASTERN AIR COMMAND

CG. Lt. Gen. Otto T. Weyland.

Vice-Commander, Maj. Gen. Lawrence C. Craigie.

CG, FEAF Bomber Command, BG Robert H. Terrill.

The Command includes 5th Air Force (Japan and Korea), 20th Air Force (Japan and Okinawa) and 13th Air Force (Philippines). Its operations are supported by Combat Cargo Command, Hq., Ashiya AFB, Kyushu. Total personnel July 1951, 60,000.

The Command has carried on over a year of air operations in the Korean theater. Summary of operations since the beginning of hostilities to June 20, 1951, is as follows:

Sorties flown, 223,000

Tons of bombs dropped, 97,000

Gallons of napalm dropped, 7,800,000

Rounds of ammunition expended, 98,000,000

Rockets expended, 264,000

Tons of freight flown, 176,000

Passengers flown, 427,000

Casualties inflicted on enemy troops, 120,000

Gun positions silenced, 2,700

major strategic targets neutralized, 18

Tanks destroyed or damaged, 1,695

Motor vehicles destroyed or damaged, 24,500

Highways and rail bridges destroyed or damaged, 1,080

Buildings destroyed or damaged, 125,000

Enemy aircraft destroyed, probably destroyed,

and damaged, 391

Aircraft lost Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0 Personnel compation, 857

According to estimates based on POW interrogations, 47% of all enemy casualties were inflicted by FEAF.

Impressive as this record is, it must be balanced against the fact of complete mastery of the air in the theater, and the low fire-power of enemy infantry. It is doubtful if napalm bombing, for example, which requires extremely low altitude approach, could successfully be used against troops equipped with large numbers of automatic weapons.

As for strategic bombing, FEAF destroyed the 18 strategic targets located in Korea in the first few months of the war, and since that time Bomber Command FEAF has had to confine its operations to interdiction and troop support.

For discussion of the activities of Combat Cargo Command, which are an extremely important part of Korean operations, see MATS.

5th Air Force.

Hq., Nagoya AFB, Honshu.

CG, Maj. Gen. Frank E. Everest.

Deputy CG, Maj. Gen. Edward T. Timberlake.

Unites under this command include:

314th Air Division, Johnson AFB, Tokyo, Japan. APO 710, SF. CO. Col. Thomas B. Hall. Contains 6163rd Air Base Wing.

3rd Bomb. Wing (L)
Gontins 3rd Bomb. Gp. - 2 squadrons of B-26s, night intruder missions.

422nd Bomb Wing (L), S. Japan. CO, Col. Brooks A. Lowhon. B-26s. Flew 50th mission in April 1951.

4th Fighter-Interceptor Wing. Kimpo AB, Korea. F-86s.
Col. Francis S. Gabreski.
Group Com., Lt. Col. Glenn F. Eaglestron.

51st Fighter-Interceptor Wing. F-80s. Col. John W. Weltman, CO.

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18th Fighter-Bomber Wing. APO 970. F-51s. Contains 65th Fighter-Bomber Squadron.

49th Fighter-Bomber Wing. F-80s.

8th Fighter-Bomber Wing. F-80s.

136th Fighter-Bomber Wing.
F-84s.
Contains 522nd Fighter Squadron.
Lt. Col. J. B. MacDonald

116th Fighter-Bomber Wing. F-840. Arrived in Japan in August.

17th Fighter-Escort Wing. F-84Es.

67th Tac Recon. Wing. F-51s:

543rd Tac. Recon. Gp. F-80, RF-80, RF-51

67th All-weather Squadron F-82s,

1808th Air Weather Wing, Japan. WB-29.

6131st Tac. Support Wing F-51s.

20th Weather Squadron, Nagoya AFB. (2143rd Air Weather Wing)

20th Air Force.

Hq., Kadena AFB, Okinawa.

CC, Maj. Gen. Ralph F. Stearley.

Unite include:

19th Bomb. Wing (M), Okinawa. B-29. CO, Col. Mobert G. Wimsatt

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98th Bomb Wing (M), Japan. B-29. SECRET

307th Bomb Wing, Japan B-29. A

î,

91st Strat. Recon. Sq. RB-26.

15th Weather Squadron, Okinawa (2143rd Air Weather Wing)

6332nd Med. Gp. APO 239-1 (6332 Air Base Wing)

529th AC & W Gp., Maha. APO 239.

6351st Air Base Wing, Maha.

1811th AACS, Kadena.

595th AF Band, APO 231.

97th AAC Group (Army)

Combat Cargo Command. Hq. Ashiya AFB, Kyushu. APO 959.

315th Air Division.
Mq. Itazuki, Kyushu.

314th Troop Carrier Wing. C-119. Contains 21st and 46th squadrons.

374th Troop Carrier Wing. Near Tokyo. C-54.

437th Troop Carrier Wing. Near Tokyo. C-46.

812th Avn. Eng. Squadron.

Japanese Bases. Tachikawa, Brady, Ashiya, Itazuki.

13th Air Force.

Hq., Clark AFB, Philippines (near Manila). APO 74.

CG, Maj. Gen. H. M. Turner.

Wice Commander, Dache M. Reeves

18th Med. Gp.

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FEAMC

Hq. and Hq. Sq. APO 323.

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Tachikawa.

6403rd Pers. Processing Sq. APO 959.

13th Med. Gp. (Dep). APO 323-2. Tachikawa.

MATS Units

1503rd Air Transport Wing, Haneda, Honshu. APO 226.

1808th AACS Wing. APO 925.

30th Weather Squadron. APO 970.

1500th Air Transport Wing. APO 953.

FEAF Units not identified as assigned to specific Air Force or Command:

Reconnaissance

162nd Tac. Recon. Sq.

45th Tac. Recon. Sq. RB-26

[? 605th Tac. Con. Sq. APO 970]

Medical

1st wod. Sq. APO 925.

6001 " " APO 709.

27th Med. Gp. SAC. APO 929.

6163re Med. Gp. APO 719.

51st Med. Gp. APO 235.

Maintenance

6163rd Air Base Wing. Misawa, Honshu. Col. Jack S. Jenkins.

13th Tech. Supply Sq.

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Air Evac.

1453rd Med. Air Evac. Sq. APO 953.

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Rescue

3rd Rescus Sq. H-5s and H-19s

1973rd AACS (Japan)

20th Weather Squadron, Nagoya.

311th Eng. Avn. Batt. Kagoshima, Kyushu. APO 970.

6148th Air Base Group, Korea.

934th Sign. Batt (Sep) TAC, FEAF. APO 970.

2. UNITED STATES AIR FORCES EUROPE

USAFE has assumed increasing importance as the defense of Western Europe began to appear critical, as the North Atlantic Pact was negotiated, as the North Atlantic Treaty Organization has begun to function, and as a Supreme Headquarters, Allied Powers in Europe, has begun the work of integrating the military strength of the treaty nations.

As a part of the reorganization that accompanied the establishment of SHAPE, sole major AF command on the eastern side of the Atlantic was given to USAFE on 22 January 1951. In this role, it is charged with the double task of 1) promoting the unity of the 12 air arms of the NATO signatories, and 2) serving as the principal instrument of air power against a Soviet attempt to overrun the Continent. To fulfil these functions USAFE has been made the largest American Air Force outside the United States, except for the force now fighting in Korea.

Cooperation with NATO forces has been promoted by the shipment of F-80s and B-20s to Atlantic Pact countries, and it is expected that F-84Es will be shipped to Holland, Denmark and France. Cooperation is also fostered by consultation and by exchange of personnel, and even more by joint maneuvers. For instance, Norwegians have participated as observers in U.S. war games, and USAFE forces have had a part in Norwegian exercises. Similarly, in 1950, during the French combined maneuvers, USAFE troop carriers transported French paratroopers on practice jumps. Furthermore, Lt. Gen. Loris Norstad, CO of USAFE is also Commander, under SHAPE, of the Allied Air Forces in Central Europe, and he has announced a staff which includes Gen. Pierre Fay of France at Central Headquarters, Air Vice Marshall Thomas Pike of Great Britain as Deputy C of S., and other officers from Belgium, Canada and elsewhere in other staff positions.

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This cooperation, however, is SECCE beginning, as was plainly shown by maneuvers in May, 1951, in which United States, British, French, Dutch, Belgian and Danish forces participated. These exercises revealed need for a wider network of bases (eleven bases were used, of which only two were in France) and for an independent system of communications, as defense is at present almost wholly dependent upon civil communications.

The strength of the American Air Force itself, in Europe, is conspicuously low in terms of the responsibilities which USAFE would be expected to shoulder in the event of war. Fighter capacity, especially, has been almost negligible, and in June, a conference was held in Paris to discuss the increase of strength, especially in fighters. Some reports say that the USAF may later place one-third of its total strength in Europe, but this development is not mear. Meanwhile, strength on the Continent consists of only two fighter—bomber wings and two troop carrier wings, all operating from bases so deep in Bawaria that it is unlikely that they could be kept operational for more than two or three days in the event of a Russian attack.

The position in Great Britain is somewhat better. There the strategic units of USAFE are based, under the command of the Third Air Force. It
includes the 59th Depot Wing, a number of housekeeping achelons, and three or
more bombardment groups which are rotated regularly.

Recent acquisition of airfields in North Africa, negotiation for airfields in Spain, and appropriations for overseas bases of undisclosed location indicate that the Air Force is preparing to build up its European strength as rapidly as it can, but at present the deficiencies are conspicuous.

Eq., Wiesbaden, Germany.

GG, Allied Air Forces, Lt. Gen. Lauris Norstad.

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12th Air Force, Hq. Wiesbaden. CG, Maj. Gen. Dean C. Struthers. C/S, Col. "Hub" Zembke.

2nd Air Division, Landsberg, Bavaria. CO, Brig. Gen. Lawrence C. Darcy.

36th Fighter-Bomber Wg., Hq., Furstenfeldruck, Bavaria. CO, Col. Robert L. Scott, Jr.
Three fully equipped F-84E fighter bomber squadrons. See note under 86th wing.

86th Fighter-Bomber Wing, Hq., Neuberg, Bavaria. CO, Col. John C. Chennault.

180 F-84Es were ferried over to these wings in November 1950 by the 27th Fighter Wing from Bergstrom AFB, Texas. These two units have a program of constant training. The 36th Wing flew a total of 4100 hours during May,1951. Personnel from the Air Forces of various other MATO countries have trained with them.

Other units of this division include the 501st Aircraft Control and Warning Group, the 7030 Hg. Support Group.

Units under 12th AF but not in 2nd Air Division.

60th Troop Carrier Wg., Hq., Wiesbaden. CO, Col. James J. Roberts, Jr.

Slat Troop Carrier Wg., Hq. Rhein-Main Air Base CO, Col. A. C. Strickland.
Three fully equipped squadrons of C-82A's.
Has exercises with French paratroopers.

435rd Troop Carrier Wg., CO, Col. Harry Hopp. Just going to Europe. A Reserve unit from Cleveland, Ohio. Equipped with 45 to 48 C-119s; 1500 officers and men in this unit.

85th Air Depot Wg., Hq., Erding, Baveria. CO, Col. Perk Holland. Repair and maintenance all USAF aircraft in Germany and Austria. A very large base.

Other units include the 7167th Special Air Missions Squn., the 7th Air Rescue Squn., the 7100th Hdqrs. Support wing.

Red Air Force, Hq., South Ruislip, Middlesex. RG, Maj. Gen. Leon W. Johnson.

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Maintains facilities and bases necessary for the continuous support of strategic forces which are rotated at 90-day intervals. Usually three medium bomber groups and one fighter escort group are based in England. For instance, the 93rd Bomb. Wg. (B-29s) was there in 1950, and they are now back in the U.S. Their practice missions sometimes went as far as Saudi Arabia and back.

In July, 1951, the 31st Ftr. Wg., Col. David Schilling, CO, finished six months training in England and returned to the Z.I. Their place is being taken by the 12th Ftr. Escort Wg., now being flown to U.K.

Also, a B-50 wing is now on temporary duty there. The strength is kept at one bomb wing (45-50 bombers), one fighter wing (usually F-84Es), in addition to 20 converted B-29 refueling planes and half a dozen RB-45 recon. bombers (soon to be replaced by British Canberras).

other installations in Britain, though estimates of the number have run considerably below this figure (five, Herald Tribune, 25 June, and four new bases being opened, ibid., 7 June; 7, Newsweek, 25 June; twelve, New York Times, 7 May). USAF has bases in East Anglia which it occupied during World War II, namely Sculthorpe and Marham in Norfolk, and Lakenheath and Mildenhall in Suffolk. Other bases, the majority of which are new, include Waddington in Lincolnshire, Wyton in Huntingdon, Bovingdon and Bassingham in Fertfordshire, Chicksand in Bedfordshire, Upper Heyford and Brize Norton in Oxfordshire (both new), Fairford in Gloucestershire (new), Newbury in Berkshire, and Manston in Kent (escort fighter). In addition to these bases, there is a Headquarters installation at South Ruislip, Middlesex, a medical installation at Blandford, Dorset, two AAA Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0

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baitalions at Norton Barracks, Worcester, and supply bases at Seland,
Flintshire, and Burtonwood Depot, Lancashire - the latter a very largescale repair and maintenance unit.

The number of personnel in the United Kingdom is undoubtedly being increased. Approximately 20,000 airmen were there as of 7 June, which figure probably includes some 3,000 in the temporary rotational wings.

The 20th fighter-bomber group and the 7512th Air Support Group are are at Manston, Kent.

The 59th Air Depot Wing is at Burtonwood and the 30th Air Depot Wing is at Sealand, Flintshire.

The 32nd AAA Brigade and 60th AAA Battalion are at Norton Barracks, Worcester.

Southern Europe.

Plans are being made to increase our strength in the Mediterranean.

A still undesignated Air Force is envisioned for North Africa. It would logically be under the command of Maj. Gen. David M. Schlatter, CG, Allied AF, Southern Europe. Contracts have been let to the Morrison, Knudsen Construction Co. for building five air strips in North Africa. Wheelus Field, Tripoli, an MATS base, is at present our only field along the African coast.

ECA funds are being used to build and improve airfields in Greece and its outlying islands. They are ostensibly for the use of the Greek airlines, but they are being made to military specifications. Timbaki Field,
Crete, will have a good 10,000 ft. runway, and other improvements are being made at Herakleion Field, Crete; Kastelli, Crete; Mytilene, Lesbos;
Mertisa, Rhodes; Mikra Field, Salonika; Greece; Sades Field, Salonika;

Hallikon Field, Athens; Araxos, Southern Greece; and at one unnamed place on the island of Corfu. The U.S. is also attempting to have the British improve the air facilities on Cyprus.

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C.O. Maj. Cen. William D. Old

Hq and Hq Squadron APO 942 Seattle SECRET

Elmandorf AFB

APO 942 Seattle

10th Air Division (Defense)

C.O. Col. James L. Bryan

Co-ordinates defense system of southern Alaska

Contains

531st Aircraft Control and Warning Group

857th Anti-Aircreft Automatic Weapons Bettalion

ARMY

95 th

39th Air Depot Wing

C.O. B.G. Walter R. Agos

cuistates

57th Fighter Interceptor Group

(64th, 65th, and 66th Squadrons, F-80's probably being replaced by F-94's)

39th Maintenance Group

39th Supply Group

39th Air Base Group

39th Medical Group

5039th Transportation Group

154th Troop Cerrier Squadron

5059th Base Flight Squadron

5039th Air Support Squadron)

(Function of 5039th Air Support Squadron is the

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345 346

Also at Elmendorf

59th AACS Group

SECRET

925th Engineer Aviation Gp.

81.5th

1804th AACS Cp. MATS

10th Air Rescue Squadron MATS C.O. Col. Bernt Balchen

5005th Hospital Group

27th Statistical Service Unit

LADD AFB APO 731

lith Air Division (Defense) has direct operational control over elements of defense in northern Alaska.

C.O. Lt. Col. William M. Bowden

5001 Composite Wing. C.O. B.G. Donald B. Smith

(5001 Medical Group

5001 Survival Squadron

5001 Air Base Group)

Arctic Acromodical Laboratory

Eielson AFB AFD 937 C.O. Col. Edward Moore

375th Weather Reconnaissance Squadron. B-29's. MATS

(has made more than 375 flights over North Pole)

regularly scheduled flights between Eielson and Yokota,

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348 341

5010 Composite Wing. C.O. B.G. David H. Barker

(5010 Maintenance Sq.)

SECRET

(5010 Sup. Sq.)

807th Engineer Aviation Gp.

Alentian stations

Nokook AFB

Shemya AFB - AACS unit

Thornbrough AFB

Cape AFB

Amehitka AFB

A communications station to be built at Kenai (cost \$7,000,000)

Canadian-U.S. Weather station at Mould Bay on Prince Patrick Island.

GCA units at Shemya, Adak and Cold Bay.

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348

Northeastern Air Command

Hq. and Hq. Squadron - Pepperell AFB.

SECRET

St. John's, Newfoundland. APO 682 c/o PM, NY.

C.O., Major-General L. P. Whitten.

Deputy C.O., Colonel J. F. Whitely.

Mission. Defense of North American continent, maintenance of bases needed for transatlantic flights, maintenance of weather stations.

"Area of responsibility" includes Quebec, N.W. Territory, Labrador, Newfoundland and Greenland.

Beses.

Pepperell AFB, St. John's, Newfoundland. C-54s.

Ernest Harmon AFB, Stephenville, Newfoundland. 6th Rescue Squadron.

McAndrews AFB, Argentia, Newfoundland.

A base on the S.W. coast of Greenland.

Stations

Artic Indoctrination School, Goose Bay, Labrador.

Weather stations manned jointly by US-Canadian personnel.

Mould Bay, Prince Patrick Island.

Isaachsen, Isaachsen Island.

Alert, Ellesmere Island

Eureka, Ellesmere Island.

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5. CARIBBEAN AIR COMMAND

Mq., Albrook AFB, Canal Zone.

GG , Brig. Gen. Emil C. Kiel.

GRET

This command includes only one active base, Albrook, outside Balboa, It is equipped to handle tactical units flown from the states in an emergency. As of 9 June 1951, the 23rd Ftr. Gp. was stationed in the Canal Zone. Also, the 1st Air Rescue Squadron of MATS is stationed here. The command has been running a school this summer for 165 South American students from the Air Fortes of several countries.

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SECRET

SUBSECTION III

AURCRAFT

-dET

A

AIRCRAFT INVENTORY

AIRCRAFT

A.

Inventory

SEGRET

The present (1 Sept. 1951) inventory of AF aircraft was stated (August) to be 13,500 units. Even this figure provides a false sense of security since probably no more than 6,000 (5,705) a/c at the outside are first-line, modern models. The reduction of Symington's (March 1950) projected inventory for 1 July 1951 of 21,000 a/c to 13,500 is more realistic, yet even this figure includes 7,500 or more a/c many of which are scheduled to become obsolete 1 July 1952. Furthermore, since only combat types provide a valid estimate of AF Military capabilities (necessary and useful as non-combat a/c are), the number of bombers, fighters, and reconnaissance a/c (1 Sept. 1951) of first-line quality is only about 5,000 at most.

The conspicuous use in Korea of B-26's, B-29's, and F-51's indicates both the lack of a sufficient number of modern a/c and an unwillingness to risk the present limited supply - though F-80's, F-84's, and F-86's are reported in action. The scheduled retirement as obsolete on 1 July 1951 of the B-29 has been postponed. Although this model has held its own against Koreans and Chinamen, its achievement (beyond bombing pack-animals, warehouses, railroads, ground troops and other fixed targets) is hard to estimate. An admitted loss of 246 a/c (188 fighters, 33 bombers) to 20 June 1951 and (chiefly to ground-fire) stands against a claim of 319 enemy a/c destroyed and 391 destroyed or damaged; but Hanson Baldwin recommends halving AF claims of enemy losses on the basis of World War II experience.

In the case of Fighter a/c, an accurate estimate of planes built within the technical Mifetime" (3 years) is difficult to make with preciApproved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0
sion. Of the 1,652 Fighters (excluding F-1,7 and F-51) given in the

inventory by types (Table III), 4,067 have jet power plants; but how many of the 1,727 F-80's were built before 1 July 1948 has not been ascertained a gness of 500 is used). The total number of jet-engined Fighters is probably no more than 3,500 - if that many.

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The significance of this inventory of about 600 first-line bombers and 3,500 fighters is meaningful only by comparison to the quantity of a/c of comparable quality in the air force of a first-rate power; or to the number of a/c required by USAF's own requirements for a 48-70-87-95(N-1) or 150 Wing U.S. Air Force. Russia's alleged production rate of "8,500 military front line planes a year" (250 bombers, 6,000 fighters, 2,250 transports, trainers, etc.) means that Russia will have produced in a year 1/3 the number of USAF modern bombers now in being and more than the USAF's total number of first-line fighters.

Against its own goals, the equipment prescribed for the 70 Wing AF (as proposed 10 Feb., 15.3) would require (1):

	Available Sept. 1951		
72 180 216 210	93 522[*B-29s] 60[*B-29s] B-26s		
008.	675 L-B-26s and B-29s		
375 216			
,091	c. 4,000 Jets		
3 11/4 288			
132	1,046		
	180 216 210 210 208 375 216 3091 3111 288		

Wings, and 20 Air Defense Wings; but the typesof Wings and planes are not anown. Approved Tor Release 2004/RZ/28+CIA-RDE 7920971A00030092791228 to HR. 10. Feb. 1949. H.R. 1437, Report Fig. 10.

Here again, mere numbers are deceptive unless weighed against quality. The obvious shortages of first-line a/c (whether against the 70 Wing proposal, the 57 Wings in being or the 95 Wing goal) are in quality Medium Bonbers (100 B-47s), Light Bombers (no first-line until the B-57 is delivered), and in the top-performance fighters (F-89, F-94, F-95). In sum, no matter how the inventory is calculated, the conclusion can not be avoided that the current number of 4,000-5,000 first-line combat a/c falls short of enough to justify the AF, or the U.S. Government, in undertaking an aggressive war at present. Nor does the estimate of 4,000 jet fighters seem enough to justify any desire by the AF to enter upon a "defensive" war against an air force equipped with 6,000 fighters produced within the past [or next?]

The 1,046 Troop Carriers and Transports seem adequate for present requirements. They are essential for land, sea, and air warfare, but they are not effectual against enemy fighters. The estimate of c. 1,000 trainers may be low because of current production, but even 1,500 would seem too few to train the personnel needed for the 95 Wing AF. The use of F-47s, F-51s, B-26s and C-47s by the ANG and Air Reserve again confirms the conclusion that the current inventory is inadequate for present, let alone war-time, needs. The next 6-12 months: production may do a little to redress the unfavorable balance. The most effective Bomber, the B-47, is in full production and even if the 100 units estimated for 1 Sept. 1951 is too high, that number should soon be built. Disappointment in the B-36, by AF officers and officials has been openly expressed, and the AF now seems to be banking on the B-47. Also, Martin is licensed to make the English Electric Co's Cenberra (B-57A) light bombers. Concern over the quality

of jet engines has led Republic to use in F-8LFs the British Sapphire being built in the U.S. by Eright Aeronautical Corp. and Buick Div. of General Motors. At best, existing inventories contain equipment for a "peace-time" air force, and current production reflects poetntiality more than a capacity adequate to deter an actual aggressor.

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Table I 3

Aircraft Required for full complement of the 70 Combat Wings Identified

	-	Chillian Control of the Street	Consultation days stocked	AND DESCRIPTION OF THE PARTY OF		
Wings		A/C per Wing Hombers	Total A	/C Required	(1) A/C Availabl	<u>.e</u> (2)
Strat.Recon.	5	30	150		(RB-36: RB-29:	60(3) [790(3)
Heavy Bombers	3	18 [-36]	54	[-108]	(RB-29:	93
Med. Bombers	15	45	675		(B-45,47,50:	522 [500-1,000]
Light Bombers	3	48	344	SECRET	(B-45,47,50: B-29 B-26:	[500-1,000] [500-1,000]
Totals	26	M. 	1023	[-1077]		675 B-26, B-29
Tact.Recon.	3	Fighters 54	162	1		
Ftr-Escort	2	75	150			
Ftr-Bomber	14	75	1050	Charles de la company de la co	Jets:	4067
Ftr	Į,	75	300	\(\sigma \)	F-82:	585
Ftr-all weathe	r 3	75	2 2 5		(F-51: _	3
Ftr-Interceptr	13	75	975			•
Totals	39	- Mariane di	2862			4652 [s? F-51s]
Troop Carriers	13	Troop Carriers	1468	[-624]	•	1046(4)
Totals	78	-	4353	[-4563]		ner Principal de la Company de

⁽I) No allowance is made for Spares.

⁽²⁾ These figures make no discount for recent Operational and Combat losses, hence are high.

⁽³⁾ No precise estimate available; the 1500 B-29s permit the conversion to RB-29s of the 90 (or more) needed.

⁽⁴⁾ Including cargo a/c.

^{*} After completing this Table a 79th Wing, the FEAF 17th Fighter-Escort Wing was identified. It presumably contains 75 aircraft thereby increasing the total of Fighters required to 2,937 and the total of all aircraft to 4,428 [-4638].

Table II

Inventory of Aircraft: Over-all Totals.

1 July 1949

Total a/c:

SECRET

22,000

a/c in use: a/c inactive

13,000 9,000

[7,500 in storage]

Types

Combat:

10,250

8,246 Obsolete 1 July 1951 2,004 [Not obsolete 1 July 1951]

"Modern" Trainers, transports,

11,750 [WW II Types Obsolete July 1952]

31 December 1949

Total: 1 July:

22,000

Delivered 1 July-

31 Dec.

783

Total a/c

22,783(1)

45% = "First line" a/c 10,252 of which

50% = "Modern Quality" 5,121 For 48 group AF

(1) No deduction for Obsolete Non-Combat a/c retired July-Dec.

July 1950

8,300 a/c in Storage: including c. 1000 B-29

1 July 1941 (Estimated by Symington 24 March 1950)

Total

21,000

25% = "Modern"

5,250 (Symington: 5,700 modern a/c)

48 group Quality

5,200

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Check Estimate: No. 1

•	OUGOW IN	OTTOS OC.	140.9 7	
Combat Types	{ In Being Not Obsol	July 194 ete July	9 1951	2,004
Deliveries (a				1,792
79	11	n	FY 50,51	1,372
	SEC Check Est	RET	io 2	5,168
		NORTH PROPERTY LABORRANCE	U + E	
Combat Types	July 49-Ju	11y 51]		2,004
Deliveries so	heduled FY	49/50		1,792
A/C in Being	1 July 1950)		3,796
af % of fy 50	/51 Product	tion:		1,909
Modern A/C in	Being Not	Obsolete	e 1 July 19	951: 5,705
Sum	ary Estima	te of To	tal Invento	ry, 1 July 1951
Modern A/C in	Being, No	t obsole	te:	5,705 ⁽¹⁾
Add: Non-Cou	bat Types 1 July, 19	(obsolata 52)	e 1 July,19	950- 11,750 ⁽²⁾
Total: A/C al	.1 types			17,455
Deduct: Korea	ın Losses (246 to 2	June '51) 246
Opera	tional Los	ses (Gue	ss)	209 1,55
Total Invento				17,000
Cf. AF Testin	nony in Con	gress, A	ug .195 1⁽²⁾	13,500

Non-Combat types retired 1 July 1949-

1 July 1951 (Est.)

3,500

[&]quot;Modern" Combat types probably number less than 5,000 (5,705 minus Non-Combat types delivered since 1 July 1948). Cf. below, Estimate of A/C by types, as of 1 Sept. 1951 (Bombers, 675 * Jet Ftrs, 4,067, total: 4,742 Modern A/C.

⁽²⁾ Of the 11,750 A/C (described as W.W.II Non-Combat Types to become Obsolete by 1 July 1952), many (perhaps 3,500) may have been retired by 1 July, 1951.

No deduction thereof is made here, but this probably explains the comparatively low figure, 13,500 A/C, stated by the AF in August as current inventory. American Aviation Daily, 24 Aug. 1951, p. 354. The difference between the 13,500 inventory and Symington's estimate (Warch 1950) for 1 July 1951 of 21,000 may result from the 13,500 A/C (Warch 1950) for 1 July 1951 of 21,000 may result from the 13,500 A/C (Warch 1950) for 1 July 1951 of 21,000 may result from the 14,000 may result

Note 2 - cont.

condition, for example, 1722 are being "removed from storage during FY 1951/52;" and 250 B-29s (which in March 1950 were scheduled to become obsolete 1 July 1951) currently are being withdrawn from storage and reconditioned. Congressional Hearings, 82:1, House Appropriations Committee, AF Approp. FY 1951/52, pp. 382, 89.

Table III

SECRET

Inventory of Aircraft: By Types, 1 Sept. 1951
N.D. No Deduction for Korean Losses (Combat 246, Operational 62)
nor for domestic Operational Losses is made.

Bombers

B-26	(Old A-	26):	2,502	made	by Aug	1945
B-29	(Old A-1	made	by May	7 1946	; (1)	
		,		All May a from the part of passage of	****	
B-36,	21	153				
B-36 B-45	2)	200				
B-47		100				
B-50		222				
XB-57	·	2				
XB-51 B-52	3)	0				
XB-514 B-57A	(1.5	0				
B-57A	(4)	O				
B-58		0				
YB-60		0				
Total	: Ist Li	ne.	677 A	7 c	nes#	
KB-29			200	, -		
Ţ	otal	•	877	7c		

Cf. Bombers required for 26 Bomber Wings identified: 1023 -1077
Note: Reported Korean Losses of 33 Bombers were probably B-26s and B-29s,
for the most part, so no deduction has been made from the estimate of "modern"
bombers. No allowance is made for spares.

⁽¹⁾ In Aug. 1946 there were "on hand" 3,040 B-29s; later 1,000 B-29s were in storage; and the 44 group AF of Feb. 1950 included 318 B-29s; in July 1951, 250 B-29s were removed from storage; (perhaps 250(?) between July 1950 and July 1951); 153 B-29s are required to equip the 15 Medium Bomber Wings identified in addition to the 522 B-45s, B-47s, and B-50s.

^{(2) 11} B-45s were converted to Target Tugs.

^{(3) 100} B-52s on order. Delivery at end 1951.

⁽⁴⁾ 9-57A is in production.

Fighters

F-47: 543 in A.N.G., Aug. 1950. Very Obsolete.

F-51: 15,302 made; 926 in ANG, Aug. 1950. Obsolete. In use in Korea.

F-80: F-82: F-84: F-86: F-89: F-94:	1727 585 1000(1) 800 130(2) 210	SECRET
F-95:	200 200	
Total:	4,652	

Cf. Fighters required for 39 Fighter Wings identified: 2,862

Note: No spares are included and the ratio of a/c available to a/c required is less than 2 to 1 (23:14).

Summary of Combat 4/C: First-line modern Bombers: 677 Fighters: 3,923 l,652 Minus: Korea Ftr. Losses 188 Obsolete F-80s made before 1 Sept. 1948 500(?) Operational Losses Z.I. 191(?)

Total: 4,600 First-line Combat A/C probably available 1 Sept. 1951

Troop Carriers and Transports

C-46 [o	ver 2,000 bu	CAF	SECRET
0-47 [1	0,123 built	(157 in ANG, Aug. 195	0)]
⊕-52	313	C-121A	10
C-74	11,	C-121B	10
Ç−82	220	YC-122	\mathfrak{I}^{\dagger}
U-97	96	XC-123 ⁽¹⁾	ı
XC-99	1	C-124	100
G-118B	15	YC-124B	0
0-119	2 36	0-125	23
XC~150	1	YC-129	O establishment glein providentapen välde sie
	Total:		1 ₉ 05lį
	Korean Losse	S:	8 esado non reformante accidendad acciden
			1,046

⁽I)
Kaiser-Frazer to build this Chase a/c; tested at Southern Pines
Exercises 25 Aug. 1951. Perhaps more than 1 is in being.

Treiners

	Treatments	
	15,117 built by Nov. 1945.	
T-60: Re-manuí	actured 1-6] 1200 "next year"	PEARET
TB-25: 10,784	built; 1400 in storage Apr. 1950	SECRET
ACONSCIONARY CONCLUMENT CONTRACTOR CONTRACTOR OF STANDARD PLANT STANDARD ST		
T-28 and TB-28	566	
T-29	76	
T-33	320	
YT-34	3	
¥ T-3 5	3	
T-36 [300 on or	der	
TB-50D	•	
T-51 [Converted 15,302	F-51 of which built]	
Total	968	
	Helicopters	
13°5	116	
H-12	3.2.	
H-18		
H-19	5	
H-21.	130	
	262	
SA-16	124	

Bibliographical Note

SECRIET

The Inventory is compiled from the Estimates on a/c production

1948-51 (See below B); from Aircraft Industries Association mimeographed

reports; from the Aircraft Year Book (1948, 1949, 1950); Jane's, All

the World's Aircraft (1947-51) and items in Aviation Week, American Aviation Daily, American Aviation Directory, The Army Almanac, the N. Y. Times

and Herald-Tribune, various Congressional Hearings, Dept. of Defense

Press Releases, and Moody's and Standard & Poor's publications.

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B

AIRCRAFT PRODUCTION

B.

Production SECRET

1,106 military aircraft of all types, for all U.S. services, and for export were produced during the first six months of 1948. Since then, mo figures of military aircraft actually built have been published. Estimates of military aircraft production have been by various private organiza-Mons, Aircraft Industries Association, American Aviation Publications, Avia-* on Week and less reliable conjecturers. Various methods of calculation have been employed: Procurement appropriations - in total or by aircraft types - divided by unit costs (estimates in themselves; airframe weight divided by that of the "average" (a non-existent) plane; projections of production rates per month from an estimated base. In sum, each procedure is highly conjectural and the first two probably fallacious since the unit cost (let alone the "average" cost) is known to be rising, which makes it a methomatical variable; and airframe weight has increased and decreased per year for even the "average" plane - Douglas, for example, made 246 aircraft of 7,251,000 lbs. airframs weight in 1950 and 289 aircraft of only 5,483,000 lies. in 1949.

In the last analysis, the published results of these and other (cocktail-party gossip) methods of estimating recent military aircraft production generally can be traced back to one or two "facts" to be found in the printed reports of Congressional Committee Hearings on Appropriations, Armed Services, Foreign Affairs, and (with very few facts) McArthur's removal. From a few data (generally so incomplete or containing so many mathematical "unknowns" that any scientific calculation is impossible) "estimates" have been made.

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SECRET However, the conclusions are reached in this study, that a total of 2,300 military aircraft for all U.S. services and MDAP were built in Calendar 1948; 2,500 in Calendar 1949; 2,700 [-3,000] in 1950; and 2,660 in 8 months of 1951; and that 1,800 aircraft were produced for the A.F. alone during Fiscal Tear 1949/50 and 2,000 for the A.F. alone in Fiscal Year 1950/51. These estimates have the single virtue of surviving several kinds of rule-of-thumb "checks." Although these "checks" may be arguing in circles from the same few basic "facts," they suggest strongly that the estimates are within a few hundreds, certainly within 20-25% of being correct. Furthermore, the annual Variation in the estimates for Calendar Years 1948-50 inclusive seem compatible with company earnings, backlogs, unfilled orders, new contracts, and the "general impression" (as evidenced by the comments of Congressmen and Air Force Secretaries and Officers at Committee Hearings). Then for Calendar 1950, markedly increased procurement appropriations, supplemental appropriations, alreraft manufacturing companies dollar sales, airframe weight volume, earnings, dividends, new contracts, bank loans, unfilled orders, and backlogs all testify to a presumably rapidly accelerated rate of production.

Estimates of the increase in production since June 1950, given below in Table III, are based on a supposed total production of 200 military aircraft for June 1950. (1) To this base, is applied Charles E. Wilson's statement that the rate of military aircraft production in June 1951 increased by 2/3 [estimates made previously by applying the "rule of 3" to June 1950's 200 aircraft rate proved hopelessly extravagant]. The "Rule of 3," according to Wilson (2nd Report, July 1951), should apply for Fiscal Year 1951/52 which Note 1. No positive evidence has been found to prove the accuracy of this figure. It comes from an Aircraft Industries Association estimate, presumably deduced from airframe weight for the month. It is below the average (216) monthly rate for the 2,600 aircraft estimated as produced during FY 1949/50. Approved For Release 2004/07/28: CIA-RDP/9R00971A000350020002-0

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Approved For Release 2004/07/28 : CIA-RDP79R00971A000300020002-0 would mean a total production for Fiscal Year 1951/52 of 8,322 aircraft of which the A.F.'s quota might be 5,000-6,000 aircraft of all types. With all the variables and unknowns that enter into the calculations of production in the tables below, the estimates for the years 1948-1951-plus inspire more comfidence than any to be conjectured after 1 January 1952 are likely to do. The estimates of production of individual types of military aircraft [Table VII] are both more and less reliable than the estimates of over-all total production. In a few instances, remarks by government or A.F. officials in positions enabling them to know the facts and to speak accurately provide a seemingly sound factual base for calculations. The statement (at a Congressional Hearing) in July 1951 that 87 B-36s are ready, that 60 more are being converted to B-36Ds (RB-36s?), and that only 2 or 3 are being delivered each menth, support the estimate of 153 B-36s in-being on 1 September 1951. Likewise. the Secretary of Defense's remark that a B-47 costs 3 million dollars per unit affords an estimate of 100 aircraft "on order" against the original Procurement Appropriation for Fiscal Year 1950. However, the conclusion that 100 will have been produced by 1 September 1951 rests on a "hunch" based on the A.F.'s enthusiasm for the B-47, their disappointment with the B-36, the voting of Supplemental Appropriations for Fiscal Year 1950/51, the A.F.'s need for a first-line bomber in quantity, the production of 15 B-47s in 1950, Boeing's past record with B-29s, and Douglas Aircraft Co. s activation, early in 1951, of its Tulsa plant to build B-47s. However, the Tulsa plant requires 6-12 menths for installations and tooling, so no aircraft are likely to be delivered

Production of fighter aircraft is more difficult to estimate since unit costs range from a conjectured \$118,000 to \$1,200,000 for different types, at different stages of production, and according to the kind and cost of elec-

before 1952.

Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0 tronic equipment installed. Here again, the 18 months "lead time" for fighters, like the 24 months for bombers, between placing the order and the first delivery (with allowance for acceleration prompted by the Korean War) proved useful as a rough check against extravagant conjectures.

Crude as the estimates by type are, and inaccurate as semiliare guesses) may be, the total number of bombers, 398, built 1948-1951 [1 Sept.] inclusive and of fighters, 2,925, provide a fairly valid basis on which to estimate current A.F. combat capabilities. Even if the estimates should be 30% out (either way), they measure the approximate force, augmented by the 1500 [600-2400] atomic bombs of various potencies, that an enemy air force must overcome. After all, the current capabilities (and perhaps the immediate aircraft production potentialities) measured in bombers and fighters (and not helicopters, transports, and trainers) are what may decide an enemy whether and when to risk a war against the U.S.A. But the quality of the aircraft, as exhibited below (C) in the performance data, and the geo-political deployment (IV, A and B) of the A.F. must be included in any over-all estimate of the

Bibliographical Note

Basic data comes from various Congressional Committee Hearings; data on 1948 and 1949 production by types from material provided by Aircraft Industries Association. The Department of Defense Press Releases provided specific items, as have American Aviation Daily, Aviation Week (N.B. Feb. 25, 1950 and Feb. 26, 1951), Jane's All the World's Aircraft (1948-51), Aircraft Year Book

Note 2. Current lead times in weeks are: airframes, 43-65; engines 70-90; electronics 70-80; armament 70-80 (Aviation Daily, 24 August 1951). Little reduction over the 18 month (72-78 weeks) lead time may be anticipated at present, and several bottlenecks still exist.

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Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0 (1345-55). Very few data concerning production have come from the N.Y. Times Herald Tribune. Material of value, notably actual production figures for imaglas Aircraft Co., appears in Moody's and Standard and Poor's publications.

SECRET

AIRCRAFT PRODUCTION

Table I

Totals of All Types

SECRET

Calendar	Total (A.F., Naval, Army, MDAP) Wilitary Aircraft Production Calendar Years
1946	1669 Actual
1.947	2100 Actual
1948	2300 Estimated (Estimates AIA = 2200-2400)
11949	2500 " (" " = 2400=2700)
1.950	2700 -[3000] Estimated [Rate Dec. 1950 = 266or permenth = 3192 or per year] (1)
1951	4990 Estimated [Rate Dec. 1951 = 666 per month = 7922 per year.
1952-to June 30	5160 Estimated [Rate June 1952 = 1000 per month = 12,000 per year.
#	N. 1. 266 = Calculated from Base of 200 a/c in June 1950;
The state of the s	287 = from 215 a/c June 1950.
1 1 1	Total Air Force and Navy Aircraft on Procurement during Fiscal Years
197 and 1949/50	1250 Aimswoft for A.F. plus Nove 708 = 2.048

Flacal 1949/50 1250 Aircraft for A.F. plus Navy 798 = 2,048

1950/51 7574 " " " " 5,180 (N1) = 12,754

cf. 7483 at Average Cost \$976,000 per a/c.

N. 1. Estimated from Average Cost (\$575,000) per plane and probably too high since in August 1951, \$900,000 per unit is given for Navy a/c.

Total Air Force and Navy Aircraft Scheduled for Delivery as per General Kessler, 10 Feb. 1950

Fireal 1949/50 Scheduled for Delivery AF 1792 plus Navy 997 = 2789 a/c

N.Approved Production for Fisca F1987 of 3259 a/c [or 3515 a/c].

Table II

Comparative Tables SECRET

	Fiscal Year	1949/50	Fiscal Year 1950/51 (N1)
On Procurement :	A.F. 1250	Navy 798	A.F. 7574 Navy 5180
Scheduled for Delivery:	A.F. 1792	Navy 997	A.F. 1372 (N2) Navy 945 (N2)
Estimated Production :	A:F. 1800	Navy 800 (N3)	A.F. 2000 (N4) Navy 1000 (N4)

- Notes: 1) Estimated from total appropriations divided by average cost (\$575,000) per unit.
 - 2) As stated on 10 February 1950 (before Korea) by General Kessler at House Committee on Appropriations Hearings and presumably increased in fact during Fiscal Year 1950/51.
 - Based on Average of Estimates by Aircraft Industries Association for Calendar 1949 = 2500, and 1950 = 2700: Fiscal Year 1949/50 = 2600.
 - Based on Estimates (demonstrated below) July 1950 June 1952, giving Fiscal Year 1950/51 total (A.F., Navy, Army, MDAP) Military Production of 3259 to 3515 and deducting 259 for Army and MDAP (admittedly high for A.F. and Navy). The excess of 628 aircraft estimated as produced during Fiscal Year 1950/51 may be accounted for as the result of the supplemental appropriations, the increase of orders, and the presumed increased rate of production after 25 June 1950 the Korean War.

Conclusions:

The 3800 aircraft estimated as produced (as against 3164 scheduled for delivery) for the A.F. between 1 July 1949 and 20 June 1951 may be too high; but it is lower than the highly publicized 3,000 .

military aircraft for Calendar 1950. The addition of the 2,004 Combat Planca which Symington described as "Not Obsoleta" by 1,211 July 1951, Approved for Release 2004/07/28: CIA-RDP79R00971A000300020002-0

SECRET

Table II (cont.)

gives a total of 5,840 first line, modern aircraft available 1 July 1951 (cf. Symington's prediction of 5,700 "modern" aircraft of which 5,200 were of quality for a modern 48 Wing A.F. The 3,800 aircraft includes Non-Combat types (Troop Carries [F. Rainers, etc.) so the round figure of 4,600 first-line Combat aircraft reached by totalling the numbers of aircraft by types (see above) is compatible with the total of 5,800 aircraft. In normal figures, a total of 5,000 to 5,000 first-line aircraft of all types seems the highest estimate obtainable by conservative calculation.

Even with increased acceleration of production, it is doubtful that the actual number of first-line aircraft exceeds appreciably Symington's estimate of 5,700, or that of 5,200 fit for a 48 Wing A.F.

The use of B29s in large numbers, B26s and F-51s in large numbers in Korea indicates that only by using such aircraft (defined in February 1950 as becoming obsolete by February or July 1951) has the AF been able to equip the alleged "87 Wing" air force of which 78 Combat Wings have been identified (the 4 MATS Wings are not included in the 78).

Table III

Calculation for Fiscal Year 1950/51

Estimate of Military Aircraft (A.F., Navy, Army, MDAP) Production for Fiscal Year

1951 (1 July 1950 - 30 June 1951) Based on Wilson Formula: June 1951 = 2/3 Increase in the Rate of Production over June 1950.

SECRET

June 1950 Production Rate of 215 per month provided by Aircraft Industry Association of America; Rate of 200 estimated from Appropriations for Procurement of 2048 algeraft for Fiscal Year 1950.

June 1950 = 200 a/c plus 2/3 (133 = 333 a/c for June 1951. Monthly average increase = 11.

June 1950 = 215 a/c plus 2/3 (143) = 358 a/c for June 1951. Monthly average increase = 12.

1950	Rate of 200 in June 1950 \$ 11	Rate of 215 in June 1950 \$ 12
July	211	227
August	222	239
September	233	251
October	244	263
November	255	275
December	266	287
Six Months	1431	1542
1951		
january	277	299
February	288	311
March	299	323
April	310	335
May	321	347
June	333 water college programme college	358
Six Months	1828 weeklanderwaynery eenskaageneerswan vary ja reverske eenske ook op	1973

Total Fiscal Approved For Release 2003407/28: CIA-RDP79R00971A000309929002-0

Table III (cont.)

Calculation for Fiscal Year 1951/52

June 1950 = 200 a/c per month x 2/3 = 333 a/c per month, June 1951.

June 1951 = 333 a/c per month x 3 = 999 a/c per month, June 1952.

SECRET

Average Increase = 55.55 a/c per month.

Fiscal Year 1951/52 estimate by application of "Rule of 3" which assumes full, all-out production. Therefore, this estimate may be too high and a maximum.

1951		
July	388	
August	844	
September	499	
October	555	
November	610	
December	666	
Six Months, 1951		3162
1952		
January	721	
February	777	
March	832	
April	888	
May	943	
June	999_	
Six Months, 1952		5160
Fiscal Year 1952		832S (NI)

Note 1. Office of Defense Mobilization stated on 26 July 1951 that aircraft production was "well over 20% behind schedule;" but Wilson stated

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Table III (cont.)

Note 1 (cont.)

SECRET

16 August 1951 that aircraft production January-June 1951 "rose 50% and is expected to rise another 70-80% by 31 December 1951. The remarks cancel each other, and the estimate of 8,322 aircraft for Fiscal Year 1951/52 is used hereinafter.

Summary of Total Mi	litary Aircraft Produ	ction Estimates
Fiscal Years	Total	Air Force
1949/50	2600 a/c	1800 a/c
1950/51	3200 a/c	2000 a/c
l July-31 Dec.	1400 a/c	900 a/c
l. Jan30 June	1800 a/c	1100 a/c
1951/52	8322 a/c	5200 a/c
l July-31 Dec.	3162 a/c	2000 a/c
l Jan30 June	5160 a/c	3200 a/c

Possible total A.F. aircraft produced during the three years 1 July 1949 to 30 June 1952: 8,200 a/c. This figure of 8,200 a/c is less than 3,000 a/c per year, hardly enough a/c to equip an 87 Wing Air Force since Gen. Rawlings stated on 8 February 1950 that an annual production rate of 2,000 a/c was needed to maintain a 48 group air force. The lag behind the requirements for the much-talked of 95,130, and 150 group air forces is too great, and too obvious, for comment. Sanator Lodge's 150 Wing Air Force seems, as of 1 September 1951, a politician's dream.

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Projection of Aircraft by Types

For years 1948 and 1949 from estimates by Aircraft Industries
Association. For 1950 and 1951 estimates from various sources.

	\$	В	mberg	SECRET	
Aircraft	1948	1949	1950	1951 [to 1 Sept.]	Total
B-29		1	16 converte	d KB29 reconditioned	1951/52
B-36		75	55	23	93)
RB-36					60)
B-45	43		53	47	143
B-47		15	25	60	100
B-50	82	132	8		222
XB-51				2	2
B-57A	[Large o	rders in product	i on]		
Total	•				578
		Fi	gitere		
F-51					
F-80			[Out]	[Total bui	1t] 1727
F-82	154	409	22		585
F-84		[700] ^(N1)	800	100	1000
F-86	188	3 33	170	109	800.
F-88					
F-89		48	50	32	1,30
F-94		110	.50 (?) 50 (?)	210
F-95 '			1.20	80	800
Total:	Approved Fo	Sept.] [Excluding r Release 2004/07/2 F-84s are said t	28 : CIA-RDP7	a] 79R00971A000300020002 built by Jawery 199	2925 2- 0 0.

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Table IV (cont.)

Transports

C-45 [933 to be re-manufactured (Aug. 1951)]

C-46 [Over 2,000 built to 1946]

SECRET

C-47 [10,123 built (157 in ANG, Aug. 1951)]

Aircraft	1948	1949	1950	1951 [to 1 Sept.]	Total
C=51	313 [before	48]	iry ili M.C. delike i Libe et in Minister all Complete i Silve et in Alberta et in Alberta et in Alberta et in	and and and an experience of the experience of t	
Jes 14	14 [or earl	ler]			
C-82	20 [220 by	Sept. 48]			20
0-97	27	23	22	24 (?)	96
XC-95					
C-11 83				15	15
G-119	37 [1948 a		50	50 (?)	236
xc-320		•		•	1
G-121A	3.0	•			10
C-121B				10	10
XC=355	.2		ξ	AC-1550] 15	14
AC-553			·	L	(N1) 1
C-124	1	29	28	42	100
XC-124B					
C-125	23 (?)			* *	23
Total Produ	aced 1948-1951 [to 1 Sept.]			527

Note 1. Used at Southern Pines Exercises 25 August 1951, so perhaps more than 1 aircraft in-being.

Table IV (cont.)

Trainers

				3053	
Alreraft	1948	1949	AFT 1950	1951 [to 1 Sept.]	Total
T-28 & T-28.	В	266 2FC	125	175	566
T-29		36	20	20	76
1-31	[In Product	ion?]			
T33	28 ·	128	82	82	320
TT-34				3	3
TI- 35				3	3
7-36	[300 on Oro	der]			
T-3 X00	[First Del.	Apr. 1951]			
	Total Produ	200d 1948-1951 [to 1 Sept.]		968
		Hel	icopters		
H-5	16	100			116
H-12				11	11
#=18					
H=17		5			5
H=21			62	68	130
	Total Prod	uced 1948-1951 [to l Sept.]		262
SA-16	20	32	32	40 (?)	124

NOTE

Analysis of Production by

The Douglas Aircraft Company

SECRET

Moody's and Standard and Poor's have made available the number of aircraft units actually built by Douglas Aircraft Co. for each calendar Year through 1950. Along with sales in dollars, airframe weight and the ratio of commercial to military sales, these data make it possible to reach an estimate of the number of A.F. C-124s and Navy ADs and F3Ds produced in 1949 and 1950.

Aircraft	1949	Summary 1950	1951 [to 1 Sept.]	Total
C-124	29	28	42	99
AD	215	172	60	960
F3D	1.4	28	42	84
Comercial	31	18		
	289	246		

The data and calculations upon which these estimates are based are from Moody's and Standard and Poor's (1951).

Douglas Aircraft Co., 1949

Sales: 28	9 a/c	\$117.4	Millions		
Commercial	. 13%	15.3	ŧð	31.	a/c
Military	874	102.1	15	258	a/ċ
Air Force	467 (1)	47.	15	29	C-124s
Navy	53 %	54.1	10	21.5	ADs, 14 F3Ds

Mr Force: Cost of 1 a/c - C-124 = \$1.6 [Estimate from other sources] \$47. \$ \$1.6 = \$29.37 = 29 G-124s.

Navy and Commercial: 289 a/c - 29 = 260 a/c.

Commercial:
$$(2)$$
 \$15.3 at \$500,000 = 31 a/c (3)

- Notes: 1) Percent given for 1950 by Standard and Poor's Corporation Records, 25 June 1951, p. 4787, and arbitrarilly applied to 1949 sales.
 - 2) Aircraft Year Book 1949: 163 DC6s delivered or on order; idem., 1950: 211 DC6s delivered or on order; Standard and Poor's (March 1951) 260 do.
 - The mathematical probability for the number of commercial a/c lies between 15 and 31; the probability for Navy a/c (both ADs and F3Ds) between 299 and 245.
 - 4) 900-plus ADs had been built between May 1946 and 31 December 1951. This total may be apportioned approximately as follows:

Total: 900

1946: 100 1948: 213 1950: 172 1947: 1949: 215

200

5) A Procurement Appropriation of \$61.7 Millions on the Fiscal Year 1949/50 budget was allocated for F3Ds. At \$1. Million per a/c. 62 F3Ds were on order, from which the 28 built in 1950 may be deducted leaving a balance of 32 to be built in 1951. But the Fiscal Year 1950/51 budget probably provided for many more orders since Douglas backlog increased from \$275.5 Millions (30 November 1949) to \$656.4 Millions (30 November 1950) and to 789. Millions (1 April 1951). Also, Procurement Funds for ADs in 1950 were only

\$12. Millions and though production of ADs is said to be "continuing," greater effort probably has been applied to produce F3Ds which were "in full production" in 1949 and 1950.

Since the F3D was "in full production" before December 1950, the "Rate of 3" may well apply:

Rate for De:. 1950 = 3 per month x 3 = SECRET per month Dec. 1951.

Average monthly increase = .5 . . Jan.-Aug. 1951 = 42 F3Ds.

		1.950			
Sales:	246 a/c	\$130. V	illions		
	Spare Par's	10 .	94		
	246 a/c	120.	#1		
	10% Commercial (1)	12	Ħ	18	a/c [DC6s?]
	90% Military (1)	108*	re	228	a/c
	Air Force 46% (2)	50 .	59	28	C-124s
	Navy 512 ⁽²⁾	58.	n	200	ADs, F3Ds

A: Force: Cost of 1 a/c, c-124 = \$1.8 [estimate from other sources] $$50 \stackrel{?}{=} 1.8 = $27.7 = 28 \text{ a/c}, C-124s.$

Notes: 1) Guess (1950 Backlog included 15% Commercial Commitments, Standard and Poor's Corp. Descrition, p. 4787).

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- 2) Standard and Poor's Corporation Records, 25 June 1951.
- 3) Moody's Manual of Investments, pp. 2485-88, states that Douglas a/c in production in 1950 were C-124, AD, F3-D, DC-6, DC-6B; also experimental a/c and Guided Missiles.

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1951 (January-August)

[No actual production data is yet available]
Estimate based on Orders of C-124s.

Orders: to Dec. 1949:

30

Current Feb., 1950: 66 [Aviation Week, Feb. 1950]

July 1950:

80

Executed: 1949: 29

1950: 28

57

Bal. on order, 1 Jan. 1951: 23 C-124s.

Backlog 30 November 1950 = \$656,362,000

15% Commercial (Moody's):

98.46 Millions

85% Military

557 • 9

46% Air Force (C-124)

246.58

\$246.68 = \$1.8 (1 C-124) = 148 C-124s on Order 1 December 1950.

Conclusion: Since Rate of C-124 production was steady and averaged 2 1/2 a/c

per month during 1949 and 1950, the "Rule of 3" may be applied to
a rate of 3 per month during December 1950:

December 1950: 3 per month x 3 = 9 per month December 1951.

Average monthly increase for 1951 = .5.

January-August 1951 production = 42 C-124s.

Total C-1248: 1949: 29

1950: 28

1951: 42 [to 1 Sept.]

99 C-124s "in-being"

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Moody's "Industrials" 1951, p. 2485-86

"The following table exhibits the production of the Company [Douglas] . . . in number of planes and dollar value since 1922:" [Not included prior to 1936]

(31	Year December)	Aircraft	Sales etc. > Willi	
	1950	246	129 .893	SECRET
	1949	289	117.422	•
	1948	270	118,582	
	1947	361	128,459	
	1946	1.27	106 .721	
	1945	5,353	744 .683	
	1944	11,598	1,061.407	
	1943	9,017	987.687	
	1942	3,416	501.782	
	1941	1,233	180.940	
	1940	579	60.971	
	1939	314	27 .867	
	1938	410	28.347	
	1937	303	20.950	
	1936	228	10.087	

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C

AIRCRAFT PERFORMANCE DATA

PERFORMANCE

The available material gives the impression that the USAF has decided to concentrate on a comparatively small number of aircraft types, which will be produced in quantity. These types are:

Bombers

B36 heavy

B47 medium

857A light

Fighters

F84E, F84F

F86

789

F94

Transport

C97

C119

C1.24

Trainers

T28

T29

T33

In addition, the AF has at its disposal numbers of planes not scheduled for further production. These include:

Bombers

B26, B29, B45, B50

Fighters

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CONESECRET

Atl of the combat types have jet power plants, except the B36, which has six piston engines and four jet auxiliary engines.

The B36 is scheduled for continued production, but there are indications that the AF is no longer willing to put all its strategic bombing eggs in this one basket. In spite of AF claims, it does not seem likely that the new 10-engined B36D has sufficient speed to protect it against the high-speed, fast-climb fighters which the Russians claim to be developing. The four additional jet engines consume too much fuel to be used continuously over enemy territory on a deep penetration mission; their function is rather to provide entra power for a high-speed run over the target. This means that for a great deal of the time it is over enemy territory the plane will be flying at something like the speed of the unmodified B36, i.e. somewhere above 300 mph. And on the long-range missions for which it is designed, there is no possibility of providing it with fighter-escort, even if aerial tankers are used.

The RB36, flying without the heavy bomb load, will fly much faster and may be able to carry out long-range reconnaissance missions without pro-hibitive casualties. There are indications that the reconnaissance version of the B36 is considered just as important as the bomber by the AF.

If, as seems likely from the foregoing, the main effort of SAC will have to be made with a faster bomber, that is an all-jet bomber which sacrifices range for speed, the B47 emerges as the most important strategic bombing aircraft. This is perhaps confirmed by indications that production of the B47 is being speeded up, and the large order placed for B47 link trainers proves that it is to be a standard AF plane for some time to come, and one which is to be available in quantity.

This plane can carry the atomic bomb, and completed trials with it in March 1951. It has a speed which should be high enough to make it immune

Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0 to defense fighters (maximum above 600 mph.). Unlike the B36 it dispenses with the weight of defensive armament except for a remote-control tail turret. Its combat radius of 220-2400 miles (2700-2900 with in-flight refuelling) means that it can carry out strategic missions from bases in England or the Mediter-xanean. It has dropped bombs accurately at speeds of over 500 mph.

The third bomber on which the AF seems to be concentrating, the B57A (the British Camberra) is a light bomber, and will be the main tactical bomber of the AF, superseding the B45. It is probably intended to answer the Army's demand for a modern troop-support bomber as well as to fit AF requirements for a night intruder. Its speed, range and capacity (as far as they can be inferred from material published about the Camberra) indicate superior performance.

The B50D, no longer in production, but assigned to SAC, is capable of carrying atomic bombs and has strategic range. But even its heavy armament will not protect it against jet fighters, and it will need escort. Its range is consequently reduced to that of the escort fighters.

The B45 seems to be assigned solely to photographic reconnaissance missions (RB450).

The B26 and B29 though carrying the total burden of bombing operations in Korea, can hardly be counted on for a major war, except for short-pange night missions.

The F84E and F84F are versatile fighters which can be used for ground support, interception and escort work. According to Secretary Lovett, whey have a theoretical performance equal to the MIG15. Range of approximately 1000 miles with wing tanks for escort missions, with a high rate of climb for earlial combat. The plane has demonstrated great versatility in the Korean operations.

The F86 seems to be the AF4s best escort and interceptor: it has Approved For Release 2004/07/28 : CIA-RDP79R00971A000300020002-0

high speed, long range (perhaps 1250 miles with wing tanks) and a very high rate of climb even at altitudes over 30,000 feet.

The F94 is the AF's night and all-weather fighted rently assigned to areas which contain atomic plants. Radar-squipped, it has relatively short range, but extremely high rate of climb (7350 fpm. with afterburner). At present the standard aircraft of the Air Defense Command, it may eventually be superseded in the role by the F89, which is armed with 20 mm. cannon, a weapon which has too slow a rate of fire to be used successfully against fighters, but is ideal for attack on bombers. The F89 is a twin-engine, two-seat fighter, and like the F94, carries a full load of radar and a radar operator. It has a lower rate of climb than the F94, but greater range.

The F80, though outclassed by the MIG15, can still be used for ground support missions and for reconnaissance. It does not seem likely that the F51 and F82 would prove of value in the event of full deployment of enemy air power.

The transports include cargo- and troop-carrying planes of great range and capacity. The Cl24 with its nose-opening, can accomodate 94% of all AF and Army equipment. Like the other transport planes it can serve as either cargo or troop-carrier.

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EXPERIMENTAL AIRCRAFT

These fall into two categories: 1) purely experimental craft which are not intended for production, and which serve as "flying laboratories" for the investigation of transonic speed conditions etc., and 2) prototypes which are tested (sometimes over long periods) and may at any moment be ordered into production, like the McDonnel XF88 (Voodoo), two prototypes of which were delivered in 1949, and which is only now to be produced in quantity. Prototypes which, after testing, are not selected for production, then become experimental electraft proper and are turned over to an AF research station.

Part I. Experimental Aircraft (AF)

The X series (S1, 2, 3, 4, 5) have been used and are still being and for research in transonic speed conditions. (For performance of X1, 2, 3 and 4 see below). The latest in this series, the Bell X-5 has variable suspt-back wings, an Allison J-35-A-17 which gives it greater endurance than the previous rocket-powered models, and will take off from the ground. Flight tests are to begin soon at Edwards AFB. To investigate aerodynamic effects of changing degrees of wing sweep-back during flight.

XF92A, Convair. Now turned over to Muroc to join supersonic research program. Delta-wing fighter with 60° sweep. This configuration is especially suitable for supersonic flight. The plane has an astonishing rate of climb (reported at 12,000 feet per minute). There are reports that Convair is designing a new delta-wing interceptor, incorporating features of the XF92A.

YF93A, originally YF86C. F86 modified to carry nose radar. Long-

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Part II. Prototypes

Bombers

VB-51, Martin. Two prototypes built. A 3-engine jet bomber with very high thrust and speed, designed principally for low- and medium-level assault on military targets. It is considered by Martin to be "the smallest and lightest airplane available which is capable of meeting the requirements of the U.S. ground forces and Air Force for adequate ground support." It has variable-incidence wings, provision for RATO and parachute deceleration. This plane is the ground forces' candidate for a tactical support bomber, but it is not likely to go into production soon; for one thing, the Martin plant is producing the B-57A, which seems to be designed for the same role as the RB-51.

XB-49. The Northrop "Flying Wing." A revolutionary aircraft, but apparently not yet practicable; at any rate, both prototypes have been destroyed in accidents. The design may, however, have importance for future types. The manufacturers claim superiority over conventional types in drag reduction, range, speed and weight-lifting ability. A YB-49 prototype flew 3458 miles at an average speed of 382 mph. Its weight-lifting capacity is formidable; empty weight is 88,100 lbs., gross weight is 213,000 lbs. A YRB49A is reported in production.

Fighters

XF-85, McDonnell. An exceptionally light (5201 lbs.) parasite fighter, designed to be carried by a B-36, launched in flight and re-loaded by a hooking device. Launching and re-loading have been successfully accomplished. The plane has a Westinghouse J-34 engine (s.t. 3000 lbs.), a maximum speed of over 600 mph, and is armed with 4 cal. .50 guns.

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XF-91. Republic. A specialized single-seat interceptor designed to attack fast high-flying bombers operating in daylight; the armament consists of 20 mm. cannon, which are (at their present rate of fire) comparatively useless against fighters, but well adapted to hitting and damaging bombers. The wings are inverse-tapered, and have variable incidence. It has a very high rate of climb and its best performance is at over 35,000°. The addition of 2 500-gal. external tanks give it great endurance. The fact that there are no indications of plans for production indicates a conviction on the part of USAF that it will not have to deal with daylight bombing attacks in force.

XF-90. Lockheed. One of the heaviest fighters ever built (26,000 to SECRET.

Its two West. J-34 engines, with afterburner give it power which has reportedly driven the plane at supersonic speed. It was designed as a long-range penetration fighter and can carry bombs and rockets as well as its 4 mm. cannon. This armament-carrying capacity means that it could also function as a ground support plane.

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List of Plane Types Described

Bombera

SECRET

B26, B26C, XB26F

B29A, B29B, KB29

B36A, B36B, B36D, B36E, B36F, [B36G = YE60], RB36D, RB36E

B45A, B45C, RB45C

B47A, B47B, B47C

B50A, B50D, RB50B

XB51

B52

[B56 = B470]

B57A

[YB60 = B36G]

Douglas Model 1211J

Fighters

F51D, F51H

F80A, F80B, F80C

F82E, F82F

F84B, F84C, F84D, F84E, F84F, RF84F, F84G

F86A, F86C, F86D, F86E, F86H

F88

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Fighters (cont.)

F89A, F89B, F89C

XF 90

XF 91

SECRET

XF 92A

YF93A

F94A, F94B, F94C, F94D

[F95A = F86D]

YF%

[F97 = F940]

Transports

C45

C46

C47

C54, C54G, C54M

C74.

C82A

C97A, C97B, C97C, KC97A, KC97E

XC99

Cl19B, Cl19C, Cl19H

C118

XC120

C121

YC1.22, YC1.22C

C123

C124A, YC124B

XC125, C125A, C125B

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YC129

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395

Helicopters

H5

H12

H18

SECRET

H19

H21

Trainers

76, 76G

TB25

T28

T29

YT31

T33A

YT34

YT35

T36

TB50D

T51

Liaison

15

LC126

Experimental Aircraft

Xl

Xla

X2

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Experimental Aircraft (cont.)

X3

XA

X5

SECRET

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BOMBERS

B26

Designations

B26 [previously A26] B26C

SECRET

Manufacturer

Douglas

Mame

Invader

Light bomber, technically obsolete, but one of the work horses of the Korean campaign. Missions over Korea include day and night bombing, both penetration and tactical support. Equipped for radar bombing at night and in bad weather. Does not seem to require fighter escort in Korean conditions. Very few reported shot down in FEAF communiqués. It is not likely that it can continue to perform against modern interceptor aircraft in quantity, and the B57A is presumably intended to replace the B26 in future operations

Power

2 P & W R-2800-71.

1600 hp. each. 2000 each for take-off.

Speed

Max. 359 mph. at 16,700°.

cruising 266 mph. at 5,000'.

Range

At cruising speed with design load 700 miles.

Albitude

Service ceiling 28,500°.

Bomb Load

[Figures for A-26-C] 4 1000 lb. bombs in bays, or 4 500 lb.

bombs under wings with reduced load in bomb-bays, or 28 100 lb.

bombs and 4 napalm tanks.

Armament

[In Korea] 16 cal. .50 guns. 14 forward and 2 in turret.

6000 rounds total ammunition plus 4 cannon.

Cost per flying hr. \$72.75.

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B260

Power

2 PAW R-2800-79.

2370 hp. each.

Speed

372 mph.

SECRET

Range

With combat load 1740 miles.

Altitude

Romb Load

5000 lbs.

XB26F

Jet-powered model. Photograph, Flying, February, 1950, p. 31.

329

Designations

B29A, B29B, KB29.

Manufacturer

Boeing.

Name

Superfortress.

Obsolescent, but used as the medium bomber in Korean operations. Operates safely with jet-fighter escort for daylight operations. Without escort it could probably not fulfill its daylight missions even in Korea; according to Capt. Jabara, "the B29 is an easy target" for the MIG15. In a major war, the B29 would be superseded by B45, B47, and B50.

Converted to KB29, the airplane will remain in service as an aerial tanker, refuelling both bomber and fighter planes in flight.

B29A

Power

4 Wright R-3350-51. 2500 hp.

4 Wright R-3350-57. 2200 hp.

Speed

Max. 351 mph. at 25,000 .

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B29A (cont.)

Range

2850 miles at cruising speed. At 10,000°.

Altitude

Service ceiling 35,000' & .

Climb to 25,000 in 44 min.

SEGRET

Bomb Load

"About 20,000 lbs. depending on distance."

Dropping 1/4 ton proximity-fuse bombs in Korea.

Armament

4 GE RC electrically operated turrets, two above and two below

fuselage. Forward upper 4 cal. .50 guns, remainder 2 cal. .50

guns each. Tail turret 2 cal. .50 guns.

Cost per flying hour \$233,33.

B29B

Power

4 Wright R-3350-51.

Speed

Max. 361 mph.

350 at 24,500%.

Range

4600 % miles with 10,000 lbs.

Altitude

Service ceiling 35,000 .

Bomb Load

23,000 lbs.

Armament

Fuselage turrets of B29A removed. 3 gun tail-turret added.

2.50 hand-held waist guns.

Crew 10-14.

KB29

Tanker plane for in-flight refuelling for B50.

836

Designations

B36A, B36B, B36D, B36E, B36F, RB36D, RB36E.

Manufacturer

Consolidated Vultee.

Name

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400

B36 (cont.)

Intercontinental bomber. No data available to evaluate combat performance. AF order for Boeing B52 perhaps indicates a certain lack of confidence, and the emphasis on reconnaissance versions of this plane perhaps points the same way.

B36A SEGRET

First production model. 22 built.
Modified into RB36E.

B36B (since converted to RB36)

First flew July 8, 1948.

Power 6 Paw R-4360-41 with water-injection.

2650 hp. at 2550 rpm. at 35,000 *

3500 hp. for take-off.

Speed

Max. over 350 mph. Stalling 95.

hange

Max. designed range 10,000 miles.

Total fuel capacity 21,116 U.S. gals.

Altitude

Service ceiling 40,000 %.

Bonb Load

10,000 lb. for 10,000 miles.

Max. 84,000 lbs.

Armament

ower

6 retractable remote control turrets, each mounting twin 20 mm. cannon, plua 2 20 mm. cannon on flexible mounting in nose and 2 more in radar-controlled tail-turret.

H36D

Additional power primarily to increase speed over target area.

6 R=4360-41 (3500 hp) \$ 4 GE=J47 turbojets [J50]. GE47 has

5200 s.t. Total 21,000 hp. \$ 20,800 lbs. s.t.

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HOL

B36D (cont.)

Speed

Over-target speed (with turbojets) 435 mph at 50,000%.

Hange

11,000 miles with 10,000 lbs.

Altitude

Service ceiling estimated at 45,000 to 50,000.

Rate of climb 1200 fpm.

Bomb Load

Up to 75,000 lbs. at reduced ranges.

2 42,000 lb. bombs

Armament

16 20mm. cannon.

Remarks

Gross wt. heavier than B36B.

B36F

Power

6 PAW R-4360-53. 3800 hp. plus 4 GE J47 Turbojets.

Speed

436 mph. at 40,0001.

Range

Same as B36D.

Altitude

Bomb Load

Armament

Guns fire "20 mm. electric-primed cartridge."

Remarks

First production B36F's delivered.

RB36D

Power

Same as B36D.

RB36 E

First delivery to AF reported June 12, 1950.

14 high-altitude cameras, one with 48" focal length lens.

Power

P 6 W 4360.

Armament

16 20 mm. cannon, in 8 RC turrets.

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B36 ?

B36 turboprop scheduled for flight tests in 1952.

Allison double turbine T-40 - 550 hp. plus P & W PT2 turboprop engines - 5000 hp.

YB36G - [YB60]

SECRET

All-jet B-36 to fly fall 1951. With swept-back wings. AF has ordered 2 experimental models.

PAN 8 jet J57's.

Remarks

Cutaway of B36 (showing turret position), in Flying, April 1951, p. 15.

Loss of power from 1, 2, 3, or 4 engines not critical.

Cost per flying hour, \$1024.17.

B45

Designations

B45A, B45C, RB45C.

Manufacturer

North American.

A Me

Tornado.

Jet-engined medium bomber. The first production model B45A is out of production; some of them have been modified as targettugs. As in the case of the B36, there are indications that the AF has more confidence in the reconnaissance version of the plane than the bomber.

B45A

Power

4 GE J-47-GE-3 turbojet engines. Total s.t. 20,800 lbs.

Max. internal fuel capacity 4500 U.S. gals.

Speed

Max. over 550 mph.

Range

Tactical radius over 800 m.

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B45A (cont.)

Altitude

Service ceiling 40,000.

Bool dmol

Over 10 tons.

Armament

2 .50 guns in tail position.

Crew of 4.

SECRET

Cost per flying hour \$386.77.

B45C

Power

4 GE-J47 turbojets. 6000 lbs. st.

Water-injection being added.

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- ground speed on mon-stop flight was 569 mph.

Range

With wing-tanks, over 1200 m.

Can be refuelled in-flight by KB29.

Altitude

No new data.

Bomb Load

10 tons of bombs, Tiny Tim rockets, HVAR rockets and napalm bombs.

Armament

2 cal .50 guns in tail.

(Sept. 1950)

AF permitted North American announcement that the plane dropped

bombs at speeds over 500 mph.

RB450

First delivered to SAC June 1950.

Power

4 GE J-47.

Speed

Range

Combat radius over 1200 miles with wing-tip tanks carrying

1200 gals. each.

Altitude

Service ceiling over 40,000.

Remarks

5 camera stations.

4 RB45Cs accompanied by 4 RB29s flew to England.

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SECRET

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404

RB45C (cont.)

205 miles in 13 minutes, 15 seconds. Average 886 mph. For day and night missions at high and low altitudes, charting, mapping and photographing.

Max. take-off weight 110,000 lbs.

SECRET

B 47

Designations

B47A, B47B, B47C [B56].

Banufacturer

Boeing.

Mama

Stratojet.

In its 4-engine version, the B47C, this airplane seems to be slated for full production and use. The AF has ordered \$2,000,000 of link-trainers B47 model for 1951. Equipped for in-flight refuelling, it has a range which makes it capable of strategic bombing missions from North European and Mediterranean bases, and a speed which makes fighter-escort unnecessary. XB47 prototype flew non-stop 2289 miles in 3 hours, 46 minutes. Average speed 607 mph.

B47A

· COMES

6 GE-J47-23 turbojets. Total s.t. 30,000 lbs.

Auxiliary take-off power-rocked motors 20,000 lbs.

Also 6 GE-J47-E 23. 5800 s.t. each.

ाजन्य

Over 600 plus.

B47A flew 1425 miles at average speed 542 mph.

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4000 .

dtitude

Service ceiling 35,000' - 40,000'.

Rate of climb 4,000 fpm.

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B47A (cont.)

Bomb Load

20,000-plus lbs.

Armament

Remote-controlled tail armament only.

Remarks

First production B47A turned over to AF inspection, March 1, 1950.

B47C

SEGRET

[Redesignated B56 but this has been dropped.]

Power

4 Allison J-35-A-23. An "all-weather" engine. Estimates of static thrust of this engine vary but it is probably over 9000 lb. RATO gives extra 20,000 lb. s.t. for take-off.

Speed

650 mph. max.

630 level, sonic in shallow dive.

Hange

With wing-tanks 6000 miles.

Combat radius 2200 - 2400, 27-2900 with in-flight refuelling.

Altitude

No new data.

Boob Load

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larment

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B50

Designations

B50A, B50D, RB50B.

Manufacturer

Boeing.

Name

Superfortress.

Modified B29. Greatly increased speed and range (provision for in-flight refuelling) make the B50 capable of strategic bombing missions, but it would almost certainly need heavy fighter escort.

350A

Power

4 P & W R-4360-35.

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B50A (cont.)

Speed

Max. over 400 mph. Cruising over 300 mph.

Range

Operating range over 6,000 miles with 10,000 lbs.

Altitude

Ceiling over 35,0001.

Bomb Load

Total max. 28,000 lbs.

Armament

4 GE remotely-controlled and electrically-operated turrets. 2 above and 2 below fuselage. Forward upper 4 .50", remainder 2 .50" guns. 3 .50" guns in tail. Five sighting stations, one in nose, three in middle pressurized compartment, one in tail.

Crew 11. Cost per flying hour \$421.00.

RB50B

Photographic and weather reconnaissance laboratory.

Power

As above.

Speed

Increase over B50D.

Sange

Two 700 gal. droppable wing tanks.

Equipped for in-flight refuelling.

Altitude

Up to 40,0001.

Fquipment

4 camera stations, radar, weather devices.

B50D

General

Development of B50B with increased bomb-load or fuel capacity.

Power

4 P & W R-4360-35.

[Performance as above.]

Fuel capacity 8,000 gal.

Speed

Max. 400-plus.

Cruising 300 mph.

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B50D (cont.)

Range

Normal range 6,000 miles with 10,000 lbs.

Can carry 2 700-gal. external tanks.

Equipped for in-flight refuelling.

Altitude

40,000°-plus. Rate of climb 1800 fpm. SECRET

Bomb Load

Extra 4,000 lb. bomb under each wing.

Armament

Modified four-gun top forward turret.

Crew 11.

XB51

Designation

XB51 . 2 built.

Manufacturer

Martin.

The future of this airplane is still in doubt; Martin has built two models, but it is not yet in production. It is the Army's candidate for support bomber, and its performance data indicate that it is well suited for that role. But the B57A will probably be used instead.

Power

3 GE J47-GE-9

5200 lb. s.t. at sea-level.

RATO

Speed

Various estimates: 585 mph at 25,000'

max. 635 mph

around 630

Rumored 100 mph faster than Canberra.

Range

Combat radius under 1,000 miles.

Fuel capacity 4,000 gals.

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3B51 (cont.)

Altitude

Service Ceiling 45,0001.

Rate of climb 6,000 fpm.

Bomb Load

Around 20,000 lbs.

SECRET

Crew of 2.

Armament

Notes

Variable-incidence wing.

Parachute deceleration.

B52

Designation

Manufacturer

Boeing

Hame

Now scheduled to go into production, apparently to replace the B-36 in the future as the SAC inter-continental bomber.

Greater speed and altitude than the B36.

Power

8 P & W J-57 jet engines.

Estimates of static thrust vary between 9,000 and 10,000 lb.

These engines are difficult to obtain.

Speed

Greater than B36.

Range

Expected to have combat radius of 3,000-plus miles.

Equipped for in-flight refuelling.

Altitude

Will drop bombs from above 50,000.

Bomb Load

Designed for 10,000 lbs, for 10,000 miles

Crew 9 plus relief crew.

Notes

First deliveries before the end of 1951.

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B52 (cont.)

Cost

\$21,000, each (includes \$12,500,000 to cover cost of tooling).

Bombsight device more than \$250,000.

SECRET

Unit price will drop to \$3,800,000 for 100 planes.

Runway lengthened to 10,000° for testing XB52.

B57A

Martin version of English Electric Canberra.

All indications are that the B57As primary mission will be

ground-support.

Power

Canberra: 2 RR Avion jets. s.t. 6500-7500 lbs.

B57A : 2 J-65 Sapphire. 7500 lbs. s.t.

Fuel tanks to be modified to take JP-3

Speed

Canberra: 580 mph.

Range

Canberra: flew 2100 miles in 4 hours, 40 minutes.

flew 1155 " " 2 hours, 55 minutes.

flew 10,249 miles. Average speed 486 mph.

Altitude

Specification for Canberra was 50,000'.

Bomb Load

Canberra: claimed capacity of 10,000 lb.

B57A : bomb-bay redesigned to carry larger number of smaller

bombs.

Armament

Gunsight and fixed forward-firing guns.

Heavy load of rockets, armament and radar.

Crew 3 - pressurized cabin.

Notes

B57A will be a night-intruder, attacking ground targets.

For cut-away of British Canberra, see AW, February 13, 1950, p. 22.

410

Model 1211-J

Manufacturer

Douglas

This model has apparently never got farther than the drawing board. But its publication in Aviation Week, January 2, 1951, seems to have been a real leak.

4 engined turboprop inter-continental bomber.

Specifications call for gross take-of weight of 322,000 lb.

Normal absolute range of 11,000 nautical miles.

Combat altitude above 55,000.

Speed in excess of 450 knots.

Rate of climb 500 fpm.

20 mm. cannon plus air-to-air rockets.

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FIGHTERS

SECRET

F51

Designations

Previously P51. F51D, F51H.

Manufacturer

North American.

Name

Mustang.

Used in Korea for attack missions against troops, positions,

bridges, airfields, etc. Vulnerable to ground fire and unable

to fight enemy jet aircraft. In a major war its role would be

confined to close support and even that is problematical.

F51D & H

Power

Packard-built Rolls Royce Merlin V-1650-9.

V-1650-11.

2000 hp.

2800 with water injection.

Speed

Max. 488 mph. at 25,0001.

Max. fully loaded 450 mph.

Range

[P51] 2208 miles at 307 mph at 25,000°.

[F51D] Combat radius 950 miles.

New type external fuel tanks.

Altitude

[F5]H] service ceiling 42-43,000°.

[P51] Max. rate of climb 6400 fpm. at 5,000°.

Normal rate of climb 2300 fpm. at 17,500%.

Climb to 20,000° in 8 minutes.

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FilD & H (cont.)

Armamen

6 cal. .50 guns on wings.

SECRET

400 rounds each for inner guns, 270 each for others.

10 5" rockets, 2 1000 lb. bombs or 2 napalm bombs.

New-type rocket launchers.

Cost per flying hour, \$62.92.

F80

Designations

F80A, F80B, F80C.

Manufacturer

Lockheed.

Name

Shooting Star.

No longer in production. A very rugged aircraft, though apparently quite vulnerable to ground fire on strafing missions. Has carried 500 lb. bombs in Korea. As a fighter it is outclassed completely by the MIG15 according to Capt. Jabara.

F80A

First production model. All F80As modernized to incorporate principal features of F80B, by March 1948.

F80B

Power

1 Allison J33-A-23.

Normal s.t. 3900 lb., dry s.t. 4600, with water injection, 5400 lb.

JATO.

Speed

605 mph.

Range

1100 miles.

2 fuel tanks, 165 gale - aach Approved For Release 2004/07 **16 Fig.** RDP79R00971A000300020002-0

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Altitude

Ceiling 46,000%.

Armament

6 cal. .50 guns, 297 rounds per gun.

SECRET

Electric gyrolead computing gunsight with reflex optical system.

F80C

Power

1 Allison J33-A-23 [Model 400]

Speed

Max. at sea level at combat power and weight (with water injection)

581 mph.

Max. at 25,000 [engine dry] 543 mph.

Cruising 450 mph.

Stalling [with flaps] 102.

[without flaps] 113.

Better than 600 in speed run.

Range

1345-1470 miles.

Longest non-stop flight 1560 miles.

Combat mission endurance 3.20 hours.

Altitude

absolute ceiling 48,000%

Combat ceiling 44,100°.

39,000° fully loaded.

Rate of climb 5175 fpm.

Armament

2 1000 lb. bombs or 8 5"rockets.

6 110 gal. Napalm tanks.

6 cal. .50 guns, new version of M3 - increased fire-power.

Cost per flying hour \$120.08.

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F82

Designations

F82, F82E, F82F.

SECRET

Manufacturer

North American.

Name

Twin-Mustang.

Piston-engined twin-fuselage F51. Originally intended for

long-range bomber escort work, it is now obsolete, though used

to good effect in Korea.

F82E

Power

2 Allison V-1710-143/145.

1600 hp. each. 2300 hp. with water-injection.

Speed

475-486.

Range

Max. ferring range 2500 miles.

Can carry 450 gal. external tank.

Combat range with full armament, 1600 miles.

Altitude

Efficient operation up to 45,000%.

Armament.

6 cal. .50 guns in center section. 400 rounds per gun.

Provision for 4 1000 lb. boms, or 2 2000 lb. bombs.

5 racks carrying 5 rockets each.

Guns increased to somewhere between 6 and 14 by May 1951.

Crew 2.

Cost per flying hour \$96.49

F82F

Designed as night-fighter. Carries radar and radar operator.

Power

2 Allison V-1710-143/145.

1550 hp. each.

Speed

475-plus mph.

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F82F (cont.)

Range

2500-plus miles.

Altitude

40,000%.

SECRET

F84

Designations

F84B, F84E, F84F, F84G.

Manufacturer

Republic

Name

Thunderjet

Fighter-bomber, in service in Korea. Has carried out a great variety of fighter-bomber missions, with few losses. It is, however, outclassed by the MIG15, according to Capt. Jabara. F84E and F are scheduled for continuing production, presumably as fighter-bomber support aircraft.

F84B

Power

GE TG-180.

Speed

Prototype XP84 reached 611 mph. Unofficial speed 621 mph.

Range

1000-plus miles.

Altitude

Service ceiling above 40,0001.

Armament

F84C

In service with National Guard Units.

Power

Allison J-35-A-13.

F84D

Development of F84B.

Power

Same as F84B.

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FE4D (cont.)

Speed

578 mph. at 30,0001.

Range

1700 miles.

SECRET

Altitude

Service ceiling 45,0001-plus.

Armament

6 cal. .50 guns. 8 140 lb. rockets.

F84E

Power

Allison J35-A-17. 5000 lb. s.t. [J50].

Speed

600-625 mph.

578 mph at 30,000 [J49].

Range

Combat radius 850 miles. With wing-tanks [450 gals. each] 1000-plus m.

In flight refuelling on non-stop trans-Atlantic flight, Sept. 1950.

Altitude

Service ceiling over 45,000'.

Rate of climb 4600 fpm.

Armament

6 cal. .50 guns, 4 in nose, 2 in wings.

1800 rounds of ammunition.

Rocket or bomb loads up to total 4500 lbs.

Varying accounts of armament load: 32 HVAR 5" rockets, or

4 1200 lb Tiny Tim rockets, or equivalent in bombs, depth charges,

napalm.

Cost per flying hour, \$117.00.

F84 F

Swept-wing and tail version of F84E

fighter-bomber .

Power

Allison J-35-A-25. 5200 lbs. s.t. No provision for afterburner.

Speed

630-650 mph.

Range

2 230 gal. wing tanks.

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SECRET

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F84F

Altitude

Armament

6 cal. .50 guns.

Photograph of F84F carrying 18 5" rockets and 2 1000 lb. bombs,

AA January 22, 1951, p. 14.

SECRET

Total load 8800 lbs.

Highly complex electronic fire control.

Note

To be equipped with J65 Sapphire engine. [7200 lbs. s.t.).

Test flight of F84F with J65 successful on February 14, 1951.

RF84F

Reconnaissance - cameras in nose. For TAC.

Power

Wright YF65 Sapphire [J65].

Speed

"In excess of 700 mph."

Armament

6 installations for different type of cameras in nose.

F84G

Straight-wing. Designed for use with Boeing flying-boom.

Refuelling in 2 1/2 minutes.

Power

J-35-A-25, an improved model which gives 5600 lbs. s.t.

Additional thrust through refusement of ejector.

Speed

Range

Equipped for in-flight refuelling; takes 2 1/2 minutes

greater than F84F.

Altitude

Faster rate of climb than F84F.

Armament

F86

Designations

F86A, F86C, F86D, F86E, F86H.

Manufacturer

North American.

SECRET

Name

Sabre.

The only AF fighter which can compare with the MIG15; though it is slower than the Russian aircraft above 30,000 (according to Capt. Jabara). It has an impressive record of victories over the MIG15. Its main role in Korea seems to be escort for B29 and B26 formations.

F86A

First production model.

Power

1 GE-J47-GE-1

5200 lb. s.t.

GE-J47-GE-9

Speed

September 15, 1948, F86A with armament and combat equipment

established record of 670.981 mph.

Unofficial record of 710 mph.

Average 640 mph on flight.

685 mph at sea level, 600 mph at 20,000°.

Slower than Russian MIG above 30,000', same speed below.

Range .

Tactical radius 535 miles, 800-900 with wing tanks.

Normal Cruise range 1250 "

Ferry range with wing-tip tanks 2,350.

Slight advantage in range over Russian MIG.

Altitude

Service Ceiling approximately 50,000'.

Max. rate of climb at sea-level 9400 fpm

at 30,000 4600 fpm

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F86A (cont.)

Armament

6 cal. .50 guns in nose.

Total of 1800 rounds of ammunition.

SECRET

16 5" rockets.

Notes

Turning radius at 450 mph is 2.9 miles.

Cost per flying hour \$145.11.

F86C

Redesignated YF93A [q.v.]

F86D

Production version of this plane designated F95A. Redesignated F86D in August 1950.

All-weather fighter designed for quick climb.

Power

1 GE-J47-GE17 with afterburner.

Static thrust: 5200 lb. normal, 7000 at take-off with afterburner,

9000 top.

Speed

650-720 mph.

Range

Altitude

Over 45,000°. Absolute Ceiling 54,000°.

Estimated rate of climb with afterburner 11,000 fpm.

40,000' in 5.6 min., 50,000' in 10.1 min.

Armament

6 cal. .50 guns. 24 "Mighty Mouse" rockets.

Fires radar-aimed rockets at 1000 yds.

Sperry zero reader to be installed

F86E

Converted for in-flight refuelling.

Refuelled in air from KB29F.
Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0
Average speed 635 11 mph on 100 Kil. race course, August 1951.

Approved For Release 2004/07/28 : CIA-RDP79R00971A000300020002-0

420

F86H

Power

GE-J47-GE-29.

SECRET

Prototype contract received .

Outmatched Vampires and Meteors in test dog-fight.

F88

Designation

XF88.

Manufacturer

McDonnell.

Name

Voodoo.

Designed as penetration fighters, fighter-bomber or bomber

escort. In xapithu xuk xappenenin kungan di xue ribanan kunan kunda di di

Penetration fighter, fighter-bomber or bomber escort.

Swept-back wing.

Power

2 Westinghouse J-34-WE-22. 3000 lb. s.t. with afterburner

(boosts s.t. 40%).

With afterburner 3600 lb. s.t.

Speed

700 mph class.

730 mph at sea-level.

Range

1725 miles.

Altitude

Service ceiling 40,000 .

Rate of climb 6,000 fpm.

Specifications called for 50,000 in under 5 minutes.

Armament

6 20 mm. cannon.

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F89

Designations

F89A, F89B, F89C.

Manufacturer

Northrop.

SECRET

Name

Scorpion.

Twin-jet, two-seat, all-weather fighter. Apparently in high production. The AF has ordered F89 link-trainers to the value of \$6,000,000. Probably the plane is to be the first-line air defense fighter.

F89A

Power

Allison J-35-A-21. 5000-6000 lb. s.t. with afterburner.

Can operate on one engine.

Speed

Over 600 mph.

Range

Probably on the order of 2000 miles.

Altitude

Operates o.k. above 40,0001.

Rate of climb 5000 fpm.

Armament

6 20 mm. cannon around nose. 16 5" rockets.

Photograph of armament system mockup, AW, March 19, 1951, p. 50.

Crew of 2, heavy radar.

F89B

Reported coming off the assembly line.

F89 series is through E in first models of subsequent versions in process of manufacture.

XF90

Designations XF

Approved For Release 2004/07/28 : CIA-RDP79R00971A000300020002-0

Manufacturer

Lockheed.

SEGRET

Approved For Release 2004/07/28 : CIA-RDP79R00971A000300020002-0

422

XF90 (cont.)

Twin-jet penetration fighter. Apparently no production is planned.

First flight June 4, 1949.

Power

2 Westinghouse J46-WE-3 [J50]

SECRET

6000 lb. s.t. each.

Speed

650-700 mph. Approx. Mach 1.5.

Range

1470 miles, & 2000 miles with wing tanks above 40,000.

Altitude

Service ceiling 40,000'.

Armament

4 20 mm. cannon or 6 radar installations in nose.

XF91

Manufacturer

Republic

High-speed interceptor. Completed phase one flight tests January

11, 1950. Apparently not to go into production.

Power

GE J-47 turbojet with afterburner and 4 rocket motors.

GE J-47 develops 5200 lb. s.t.

Rocket motors (Reaction Motors) 6000 lb. s.t. at sea level.

Speed

Max. 800-plus.

Range

2 500 gal. external tanks added.

Altitude

Service ceiling 50,000'-plus. "Very high rate of climb."

Best performance at 35,000°.

Armament

XF92A

Manufacturer

Convair.

Experimental delta-wing jet fighter. Sweep of wings 60°. Has

gone to Muroc to join supersonic research program.

Approved For Release 2004/07/28 GIA-RDP79R00971A000300020002-0

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XF92A (cont.)

Power

Originally Allison J33-23. 5200 lb. s.t.

SECRET

New model J-33-29 with afterburner developing 8000 Tb. s.t.

Speed

Max. 725 mph. at 50,000.

Minimum speed 110 mph.

Range

Fuel capacity 295 gals.

Altitude

Service ceiling 40,000 -60,000 .

Rate of climb 12,000 fpm.

YF93A

Modification of F86A. Structural and power-plant changes. Long-range single-seat penetration fighter. Not going into production. Both prototypes turned over to NACA Flight Tests Laboratory at Edwards AFB .

Power

P & W J-48-P6. 6250 lbs. s.t.

8000 lbs. s.t. with afterburner.

Speed

650-plus mph. at sea level.

Range

Altitude

50,0001.

Armament

F94

Designations

F94A, F94B, F94C, F94D.

Manufacturer

Lockheed.

Name

Approved For Release 2004/07/28 : CIA-RDP79R00971A000300020002-0

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F94 (cont.)

This two-seat, all-weather fighter is a modified version of the T33 jet trainer. It carries a radar operator and 3000 lbs. of radar equipment. It has not been reported in action in Korea. It is in production and is perhaps intended for air defense operations.

F94A

Power.

Allison J33-A-33 with Solar afterburner.

5400 lbs. s.t. with water-injection, 4600 lbs. dry, 3900 lbs.

normal. 6000 hp.

Speed

Max. 607 at sea level.

Stalling 122 mph.

Range

1080 miles.

Fuel capacity 648 gals.

Combat radius without wing-tanks 500 miles.

Altitude

Sercvice ceiling 45,000'-48,000'.

Rate of climb 7,350 fpm with afterburner.

Armament

4 cal. .50 guns.

Rockets or bombs under wings up to 4500 lbs.

Radar-equipped for night operations.

"Mighty-Mouse" air-to-air rockets.

Note

Scale cut-away diagram [AW, June 26, 1950, p. 13]

F94B

Lockheed began tests January 27, 1950.

Power

P & W J-48 turbojet.

Range

Wing-tip fuel tanks.

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F94C

Power

P&W J-48 with afterburner. SECRET

s.t. (dry) 6250-plus 1bs.

8000 lbs. with afterburner.

Speed

600-plus mph at sea level.

Range

No fresh data.

Altitude

Service ceiling 45,000'-plus

Armament

Automatic radar gunsight

Note

To have new electrical autopilot.

F94D

Proposed model to serve as ground-support tactical fighter single-seat to carry extra fuel instead of radar equipment.

Power

J-48.

F95A

See F86D.

YF 36

Republic.

Jet fighter. Completed first phase flight testing July 11, 1950.

F97

See F94C.

Approved For Release 2004/07/28 : CIA-RDP79R00971A000300020002-0

426

TRANSPORTS

CA5 SECRET

Designation

C45.

Manufacturer

Beech.

Name

Expediter.

Power

2 P&W R-985. 45C hp. each.

Speed

Max. 225 mph.

Range

1200 miles.

Altitude

Service ceiling 26,0001.

Load

Crew 2, passengers 5.

Remarks

AF plans to re-manufacture 933 C45s for use as twin-engine

trainers, administrative or light cargo planes. Work to be

done by Beech.

C46

Designation

C46.

Manufacturer

Curtiss.

Name

Commando.

Medium-range military transport.

Power

2 Paw R-2800-51. 2000 hp. each.

Speed

Max. 265 mph.

Range

Tactical range over 1600 miles.

Altitude

Service ceiling 24,500°.

Load

Crew 4.

Cost per flying hour, \$57.50.

Ramarks

Loading time (Exercise Swarmer) 40 minutes.

Approved For Release 2004/07/28 614 RDP79R00971A000300020002-0 Unloading time (Exercis) of minutes.

C46 (cont.)

Remarks (cont.) CAB cuts gross operating weight of civilian model by 2200 lbs.

down to 45,000. Will cut 2300 lbs. more next year. Claims

deficient single-engine performance [July 30, 1951].

C47 [C53]

Designations

C47, C53. [DC3, DC3A]

Manufacturer

Douglas.

Name

Power

2 PAW R-1830-92.

1050 hp. each at 7500'.

1200 hp. each for take-off.

Speed

229 mph at 8500°.

Range

Normal 1500 miles.

Altitude

Service ceiling 24,100°.

initial rate of climb 1170 fpm.

Load

6000 lbs or 28 paratroops or 18 litters.

Crew of 3.

Cost per flying hour \$37.63.

C54

Designations

C54, C54G, C54M.

Manufacturer

Douglas.

Name

Skymaster.

U54

Power

4 P & W R--2000-7.

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1100 hp. at 7000*, 1000 AFF 14,000*, 1350 hp. for take-offs ...

Approved For Release 2004/07/28 : CIA-RDP79R00971A000300020002-0

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C54 (cont.)

Speed

Max. 274 mph. at 14,000°.

Cruising 239 mph at 15,000 .

SECRET

Range

Normal. 1500 miles with 16,500 lbs. at 220 mph. at 10,000.

Max. 3900 miles with 5400 lbs. at 190 mph. at 10,000°.

Altitude

Service ceiling 22,500%.

Load

Crew of 6.

Remarks

Cost per flying hour \$97.71.

Loading time (Swarmer) 55 minutes.

Unloading time (Swarmer) 35 minutes.

C54G

Power

4 P&W R-2000-9. 1450 hp. each.

Speed

Max. 308 mph.

Range

1900 miles.

Load

29,000 lbs. or 49 troops or 36 litters plus 4 attendants.

Crew 5.

C541

32-litter evacuation plane.

Designations

C74 .

Manufacturer

Douglas.

Name

Globemaster I.

Power

4 P & W R-4360-49. 3250 hp. each. 3500 hp. each for take-off.

Speed

Max. 303 mph.

Cruising 300 mph.

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C74 (cont.)

Range

Max. 7800 miles.

Normal 7000 miles.

SECRET

Max. fuel capacity 11,000 gals.

Altitude

Service ceiling 18,000'.

Load

125 troops or 115 litters.

Total 49,107 lbs.

Among items which can be loaded are 2 T-GE1 tanks, 2 75 m. or

105 m. howitzers with tractors. 2 or 3 single-engine fighter

aircraft disassembled.

Crew 9 plus 4 relief.

Remarks

Cost per flying hour \$237.45.

Loading time (Swarmer) 1 hour, 45 minutes.

Unloading time (Swarmer) 45 minutes.

C82

Designations

C82A.

Manufacturer

Fairchild.

Name

Packet.

Assigned to TAC and MATS.

C82A

Power

2 P & W R-2800 -85. 2100 hp. each.

Speed

Specifications call for Max. 238 mph with 50,000 lbs. at 17,500.

.Range

Maximum 3900 miles (Specification).

Combat radius 1000 miles.

Fuel capacity 2614 gals.

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430

C82A (cont.)

Altitude

Service ceiling 22,000'.

SEGRET

Rate of climb 800 fpm.

Load

18,000 lbs. or 42 paratroops with equipment or 36 litters.

105 mm. cannon parachuted from C82A.

Crew 4.

Remarks

Cost per flying hr. \$79,27.

Loading time (Swarmer) 35 minutes.

Unloading time (Swarmer) 25 minutes.

C97

Designations

C97A, C97B, C97C, KC97A, KC97E.

Manufacturer

Boeing.

Name

Stratofreighter.

C97A

Power

4 P&W R-4360-27.

3500 hp each at take-off.

Speed

Max. 344 at 25,000 .

Cruising speed 300-plus mph.

Range

4000 - 5000 miles, 3750 miles with 41400 lbs.

Altitude

Service ceiling 30,000 - 40,000.

Rate of climb 1040 fpm.

Load

45,000 to 53,000 lbs.

134 troops or 83 litters.

Remarks

Cost per flying hour \$272.40.

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Passenger version of C97A.

80 passengers plus 17,000 lbs. of cargo.

SEGRET

C97C

Strengthened fuselage permits additional 1 ton load.

Landing gear interchangeable with B50.

KC97A

Aerial tanker.

Convertible to C?7 in 6 hours.

KC97E

Abrial Assess, troop transport or hospital ship assigned to SAC. First delivery to AF July 1951.

XC99

Designation

XC99.

dan acturer

Consolidated Vultee.

Nam-

Transport counterpart of 836. Same mings, power-plant, landing-

gear and tail unit.

Power

6 P&W R-4360-41. 3500 hp. each.

Speed

Max. 300-plus mph.

Range

8100 miles.

Altitude

Service ceiling 30,000%.

Load

100,000 lbs. or 400 troops or 305 litters.

Crew 5

Carried 85,000 lbs. non-stop across the continent (22,000 air miles).

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432

XC99 (cont.)

Remarks

No further production contemplated.

SECRET

One produced.

C118

Designations

C118 [DC6].

Manufacturer

Douglas

Name

Power

4 P&W R-2000-7 or 11.

1100 hp. each at 7000',

1000 hp. 7000' - 14,000'.

1350 hp. for take-off.

Speed

Max. 274 mph at 14,000.

Cruising 239 mph at 15,200.

Stalling 88 mph.

Range

1500 miles at 220 mph at 10,000° with 16,500 lbs.

Altitude

Service ceiling 22,500; on three engines 17,300.

C119

Designation

C119, C119B, C119C, C119H.

Manufacturer

Fairchild.

Name

Packet

Modification of C82A.

C119B

Power

2 P & W R-4360-20.

2650 hp. up to 6000%. Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0

Approved For Release 2004/07/28 : CIA-RDP79R00971A000300020002-0

Cl19B (cont.)

Power (cont.) 2300 hp. at 18,000°

SECRET

3250 hp. for take-off.

2 P&W R-4360-20W.

3500 up for take-off.

Speed

(Specification) 266 mph at 18,000.

Top speed 258 mph.

Cruising 177 mph.

Range

Combat radius 1152 miles.

" 18,400 lbs. 500 miles.

" 15,000 lbs. 750 miles.

" 11,540 lbs. 100 miles.

Altitude

Service ceiling 23,500'.

(Specification) 23,900'.

Single-engine ceiling 8700'.

Rate of climb 800 first minute.

Kahmanihmaniman) anang isak menganakang impangnan aghan

Load

30,000 lbs., or 64 paratroops, or 35 litters.

(Specification) max. 36,309 lbs.

Crew 5.

155 mm. howitzer loaded intact.

Remarks

Loading time (Swarmer) 45 minutes.

Unloading time (Swarmer) 30 minutes.

C119C

Mass production version of C119B.

Power

2 compounded Wright R-3350-30 WA.

Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0 3250 hp. (dry) for take-off.

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Cll9C (cont.)

Speed

Cruising speed 135 knots.

SECRET

Range

Normal 650 miles.

Altitude

Service Ceiling (2 engine) 22,900%

(1 engine) 5.000°.

Rate of climb 930 fpm.

Remarks

Removable armor for crew.

C119H

Power

As above.

Speed

Lower minimum speed.

Range

1500 miles with 25,000 lbs.

Altitude

Load

25,000 lbs.

Remarks

Ready for test flight early in 1952.

40% greater wing area wingspan 148%.

Shorter take-off run.

Improved single-engine performance.

XC120

Designations

XC120

Manufacturer

Fairchild.

Name

Pack Plane.

Note

Adaptation of Cl19B utilizing detachable cargo pod.

Power

2 P&W R-4360. 3,250 hp. each.

Speed

Top 250-plus mph.

Range

Combat radius 1152 miles.

Approved For Release 2004/07/22 GHFDP79R00971A000300020002-0

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XC120

Altitude

Service ceiling 23,500°.

Load

20,000 lbs. or 64 troops or 36 litters.

SECRET

Crew 5.

C121

Designations

C121, C121C.

Manufacturer

Lockheed.

Name

Constellation.

Power

4 Wright Cyclone GR-3350-BD1. 2500 hp. each.

Speed

Top 343 mph.

Cruising 328 mph to 365 mph.

Range

5,100

Altitude

Service ceiling 27,800'

Load

47,891 lbs.

Crew 5 with 4 relief.

CTSIC

"Military super-constellations."

Pressurized for 30,000' altitudes, 76-110 passengers.

Capable of using reciprocating, compound and turbo-prop engines.

YC122

Designations

YC122, YC122C.

Manufacturer

Chase.

Name

Avitrue.

Troop and cargo-carrying transport.

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YC122C

436

Power

2 Wright R1820-101.

take-off 1425 hp.

SECRET

normal 1275 hp.

Speed

240 mph. max.

Cruising 200 mph.

Stalling 75 mph.

Range

2900 miles.

With max. load 1000 miles.

With wing tanks 4,540 miles.

Altitude

Service ceiling 29,1001.

Initial rate of climb 1340 fpm.

Load

Normal useful load 13,00 lbs. or 30 troops with equipment.

Crew 2.

C123

Designation

XC123, C123.

Manufacturer

Chase. Kaiser-Frazer Mckaickwakkakofok

Name

Avitruc.

Note

Troop and cargo-carrying transport for short or unprepared

landing fields. Can be operated as glider with or without

power plants 14504. To be produced in quantity.

Power

2 PAW R-2800-CB-14. 1900 hp.

modified to 2 P & W R-2800-CB-15. 2400 hp.

Speed

Max. 245 mph. [For both engines].

Cruising 215, stalling 75.

Slow landing, fast take-off.

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C123 (Cont.)

Range

2110 miles, 3110 with extra tanks.

SECRET

Altitude

Service ceiling 29,000°.

Rate of climb 1250 fpm.

Load

27,200 lbs. or 60 troops with equipment or 50 litters, six walking

wounded and six medics.

Crew 2.

Note

Jet version recently test-flown.

C124A

Designations

C124A, YC124B.

Manufacturer

Douglas.

Name

Globemaster II.

Note

Modification of C74.

Power

4 P & W R-4360-20W. 3500 hp. each.

Speed

Max. 298 mph at 20,800.

Cruising 264 mph at 13,6001.

Stalling 99.5 mph. with 160,000 lb. gross.

Range

6280 miles.

5240 nautical miles.

Combat radius 1000 miles with 50,000 lb. load.

Fuel capacity 11,110 gals.

Altitude

Service ceiling fully loaded 22,050%

Rate of Climb 800 fpm.

Load

76,000 lbs. or 200 troops and equipment or 127 litters.

Carried 70,000 lbs. for 1000 miles.

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Gl24A (cont.)

Remarks

Nose opening for loading cargo 130" x 140" high.

Will accomodate 94% of all AF and GF equipment.

SECRET

YC124B

Turbo-prop version of Cl24.

Contract awarded.

Power

4 P & W YT-34-P-1 turbo-prop. 5500 hp. each.

Speed

Increase over Cl24A.

Range

Increase over Cl24A.

Altitude

Increase over Cl24A.

Rate of climb increase over Cl24A.

Load

Increase over Cl24A.

Note

Increase in take-off distance.

C1.25

Designation

XC125, C125A, C125B.

Manufacturer

Northrop.

Name

Raider.

Assault transport.

Note

Cl25B Artic rescue aircraft.

Power

3 Wright R-1820-99. 1425 hp. each.

Speed

Top 207 mph.

Cruising 170-200 [HT. July 28, p. 5].

Range

1856 miles.

Altitude

Service ceiling 25,000'-plus.

Load

20,000 lbs.

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YC129

Designation

YC129.

Note

Super DC3.

SECRET

Power

2 Wright R-1820-CGHE.

Photograph, AW, March 5, 1951, p. 9.

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440

HELICOPTERS

H5

SECRET

Designations

Н5.

Manufacturer

Sikorski.

Name

Power

1 P&W R-985-B4. 450 hp.

Speed

Top 103 mph. at sea level.

Cruising 85 mph. at 1,000°.

Range

Normal 276 miles.

Altitude

Service ceiling 13,000'.

Absolute ceiling 14,500'.

Hovering ceiling 5,0001.

Rate of climb vertical 200 fpm. Max. 1,000 fpm.

Load

1505 lbs. Pilot and three passengers.

Two litters and one attendant.

Cost per flying hour \$40.54.

H12

Designations

H12.

Manufacturer

Bell.

Name

Power

1 P&W R-1340-55. 600 hp.

Speed

Top 120 mph.

Range

300 miles.

Altitude

Service ceiling 10,000%.

Absolute ceiling 11,000'.

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H12 (cont.)

SECRET

Load

Can carry 8 fully equipped troops.

Remarks

11 ordered by AF by November 1, 1950 a

H18

Designations

н18.

Manufacturer

Sikorski.

Name

Power

1 Franklin 6V6-245-B16F。 245 Hp.

Speed

Max. 111 mph.

Cruising % mph.

Range

306 miles.

Fuel cap. 62 gals. [J50].

Altitude

Absolute ceiling 13,000'.

Hovering ceiling 2,6001.

Max. rate of climb at sea level 1,300'.

Load

Seats 4.

Normal 750 lbs.

H19

Designations

H19.

Manufacturer

Sikorski.

Name

Power

1 P&W R-1340-57. 600 hp. 550 hp. at 5,000%.

Speed

Max. 103 at sea level.

Cruising 86 mph. at 1,000.

Range

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H19 (cont.)

442

Altitude

Service ceiling 13,500 .

SECRET

Absolute ceiling 16,500'.

Hovering ceiling 9,000 .

Rate of climb at gross wt. and sea level 1,100 fpm.

Load

2800 lbs.

12 seats.

8 stretchers.

H21

Designations

H21.

Manufacturer

Piasecki.

Name

Flying Banana.

Arctic rescue version of Navy HRP-2.

Power

1 Wright R-1820-76A. 1425 hp.

Speed

Top speed 130 mph.

Cruising 104 mph.

Range

610 miles.

Altitude

Service ceiling 16,000.

Load

Seats up to 20 troops, 27 in emergency.

Special landing gear for snow, ice, land, water, marsh, tundra.

SECRET

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443

TRAINERS

<u> 76</u>

SECRET

Designations

76, 76G.

Manufacturer

North American.

Name

Texan

T6G is a "re-manufactured T6."

Power

1 P & W R-1340-AN1. 550 hp. [G] 600 hp.

Speed

Max. 205 mph at 5,000%.

Cruising 170 mph. at 5001.

[G] top 212 mph.

Range

750 miles.

[G] 870 miles.

Fuel capacity 140 gals.

Altitude

Service ceiling 21,500%.

[G] Service ceiling 24,750.

Armament

3 cal. .30 guns.

Cost per flying hour \$13.84.

TB25

Designations

TB25.

Manufacturer

North American.

Name

Mitchell.

Power

2 Wright R-2000. 1700 hp.

Speed

275 mph.

Range

1,500 miles.

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TB25 (cont.)

Altitude

Service ceiling 28,000'.

SECRET

Crew 6.

Remarks

For twin-engine training and proficiency flying.

T28

Designations

TB28.

Manufacturer

North American.

Name

Power

1 Wright R-1300-1. 800 hp.

Speed

Max. at 5,000 288 mph.

Cruising 166 mph.

Stalling 72 mph.

Range

1008 miles.

Fuel capacity 125 gals.

600 gal. auxiliary tank.

Altitude

Service ceiling 29,800'.

Rate of climb 2570 fpm.

Remarks

Advanced trainer to replace T6. [AYB]

Tricycle landing gear. [AYB]

T29

Designations

T29.

Manufacturer

Consolidated Vultee Aircraft.

Name

Adaptation of Convair-Liner 240 to navigational trainer.

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CONSECURETAL

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T29 (cont.)

Power

2 P & W R-2800 CA-18. 2400 hp.

Speed

Max. 347 mph.

SZGRET

316 mph. at 13,500°.

Range

Max. 920 miles.

Fuel capacity 1,000 gals.

Altitude

Service ceiling 30,000'.

Remarks

14 stations for navigation students.

YT31

Designations

YT31.

Manufacturer

Fairchild.

Name

Power

1 Lycoming R-680-13. 295 hp.

Speed

Max. 166 mph.

Cruising 142 mph.

Range

900 miles.

900 miles at 110 mph.

Altitude

Service ceiling 19,500%.

Crew 2.

T33A

Designations

T33A

Manufacturer

Lockheed.

Name

Shooting Star.

Jet training version of F80.

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SEGRETA

T33A (cont.)

Power

1 Allison J-33-A-23. 5200-5400 lbs. s.t. No afterburner.

Speed

600 mph.

SECRET

Stalling 117 mph.

Range

Normal 1345 miles.

Fuel capacity 683 gals.

Altitude

Service ceiling 45,000'-plus.

Rate of climb 5,250 fpm.

Crew 2.

Armament

2 cal. .50 guns.

YT34

Designations

YT34.

Manufacturer

Beech.

Name

Mentor.

AF trainer development of Beech Bonanza.

Power

1 Continental E-225-8. 225 hp.

Speed

188 mph. at sea level.

Cruising 165 mph. at 10,0001.

Range

770 miles.

Fuel capacity 50 gals.

Altitude

Service ceiling 21,200%.

Crew 2.

YT35

Designations

YT35.

Manufacturer

Телсо。 Approved For Release 2004/07/28 : SECRET (9R00971A000300020002-0

Name

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YT35 (cont.)

Power

1 Franklin 6AF-165-B3. 165 hp.

Speed

150 mph.

Range

550 miles.

Fuel capacity 33 gals.

Altitude

Service ceiling 17,000%.

Crew 2.

T36

Designation .

T36.

Manufacturer

Beech - Canadair.

Power

2 P & W radial.

R 2800.

Ramarks

300 ordered to be built in Canada.

For training on 2-engine.

Convertible to utility transport.

With 11 passengers.

TB50D

Navigator-bombardier trainer.

First deliveries to AF April 1951.

Last phase of B50 program.

T51

Converted F51 to two-place trainer. [F51s from mothballs].

Speed

top 400 mph.

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LIAISON

ls Segret

Designation

L5.

Manufacturer

Convair.

Name

Sentinel.

Power

1 Lycoming 0-485, 185 hp.

Speed

130-plus mph.

Range

Combat radius over 160 miles.

Altitude

Service ceiling 15,000'.

Crew 1.

Rescue and liaison operation.

LC126

Designations

LC126

Manufacturer

Cessna.

Name

Power

l Jacobs. 300 hp.

Speed

over 165 mph.

Range

over 750 miles.

Altitude

Service ceiling 18,300%.

Crew 1. 4 passengers.

Used by AF and ANG for search and rescue.

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449

EXPERIMENTAL

Xl

OFORET

Manufacturer

Bell.

Power

1 Reaction Motors Model 6000C rocket engine.

6,000 lbs. s.t.

Speed

Max. Mach. 1.46. V-max. 960.

Designed for 1600 mph. at 60,000'.

Max. 1000 mph at 60,000 .

Minimum speed (light) 127, heavy 160.

Range

Flight duration 4.2 minutes at full power.

Fuel load 5400 gals.

Altitude

Absolute ceiling 74,000 .

Max. climb 26,000 fpm.

Carried aloft by Bl7.

XIA

Manufacturer

Bell.

Power

Speed

Max. Mach. 1.5-plus. V-max. (mph. TAS) 1,000-plus.

Designed for 1,700 mph. at 80,000.

Minimum speed (light) 120, heavy 180.

Range

Flight duration 4.2 minutes at full power.

Full load 8,177 gals.

Altitude

Ceiling for B-max. 85,000'.

Absolute ceiling 105,000%.

Max. climb 34,000 fpm.

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X2 SEVALL

Manufacturer

Bell

To explore problems of trans-sonic and supersonic flight.

Power

1 Reaction Motors rocket engine.

[Reports of Curtiss engine with 15,000 lbs. s.t. (5,000 from

one cylinder, 10,000 from the other)].

Speed

Max. Mach. 2.0.

V-max. TAS mph. 1320.

Ceiling for V-max. sea level.

Range

Fuel load 1500 gals.

Altitude

Absolute ceiling 49,0001.

Maximum climb 7,500 fpm.

Minimum speed light 130, heavy 150.

X3

Manufacturer

Douglas.

Power

"Over 60 combinations of engine and configuration examined."

Speed

Max. Mach. 3.0.

V-max. mph. TAS 1970.

Ceiling for V-max. 100,000.

Range

Fuel load 15,000 gals.

Altitude

Absolute ceiling 250,000.

Max. climb 50,000 fpm.

450

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X4

SECRET

Manufacturer

Northrop.

Designed for stability and control investigations.

Power

2 Westinghouse J-30 gas turbine. 1600 lbs. s.t. each.

Speed

In subsonic range.

Designed to fly in 650 mph. zone at sea level.

Photograph [AF, October 1949, p. 37.]

20 long. Wing-span 25.

X5

Manufacturer

Bell.

Power

Allison J-35-A-17. 4900 lbs. s.t.

Remarks

"Will begin tests soon." AAD, June 13, 1951, p. 267.

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CECRET

SUBSECTION IV

AIR FACILITIES

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SECRET

A

ZONE OF THE INTERIOR

TABLE 1 SECRE

LIST OF USAF AIRFIELDS (ZONE OF INTERIOR). (as of 1 July, 1951)

In all cases the listing is under the name of the sirfield and not the name of the city. E.g. Hanscom Field, Mass (not Boston-Bedford), O'Hare-Chicago International (not Chicago).

Where the name of the field and the name of the city are the same,

the name of the city is not repeated.

The second column indicates, so far as the information has been found,

what command or commands are using any given field.

The third column indicates, so far as the information is known, how many runways a given field has, the maximum runway length (in feet), and the runway strength in terms of pounds. This factor is indicated by a single letter, as follows:

L - up to 10,000 lbs. runway strength
M - up to 30,000 lbs. " "
H - up to 65,000 lbs. " "
Y - up to 100,000 lbs. " "
X - up to 150,000 lbs. " "
Y - up to 200,000 lbs. " "

Z - up to 300,000 lbs. "

The fourth column contains various information, including a statement of what planes have Ground Controlled Approach facilities (GCA), jet fuel facilities (jf), or instrument landing system.

Information as to units which are posted at various fields is given under the deployment information for SAC, TAC, ADC, and MATS.

Alexandria AFB l. r; 7000 jf

Amerillo Air Terminal ATRC 3 r; 6000

Andrews AFB ADC 4 r; 7000; H GCA; jf Camp Springs Md. SAC

Camp Springs, Md. SAC MATS

Atterbury AFB TAC 2 r; 5000; H Columbus, Ind.

Baer ADC 3 r; 6000

Fort Wayne, Ind.

Barksdale AFB ATRC 1 r; 10,000; V GCA; jf; Instr.Landing System Shreveport, Ia. ADC

Shreveport, Ia. ADC SAC

Bartow ATRC 3 r; 5000

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	<u> </u>	ECRE (7100	001 · 49
Bergstrom AFB Austin, Tex.	TAC	5 r ; 7100	GCA; jf
Berry Nashville, Tenn.	٠.	5 r; 5500	•
Big Spring Air Term. Tex.			
Biggs AFB El Paso, Tex.	TAC SAC	3 r; 9600; H	GCA; jf
Birmingham NAS	ADC	3 r; 5700; ₹	
Boise Air Terminal Ida.		4 r; 7700	
Bolling AFB Washington, DC.		2 r; 6000; H	
Blackland AFB Aux. Valley Mills, Tex.		allway field; 5100	
Bradley Windsor Locks, Conn.		3 r; 5100	
Brookley AFB Mobile, Ala.	amc Mats	l r; 8900; Y	GCA
Brooks AFB San Antonio, Tex.	ADC	3 r; 5200; H	
Broome AF Aux. San Angelo, Tex.	ATRC	2 r; 3600	
Bryan AFB Tex.	ATRC	3 r; 5500; M	
Buckley (Denver NAS) Denver, Colo.	TAC	2 r; 8000	
Burbank Lockheed Air Term.		2 r; 6000	jſ
Burlington Mun. Airpt Vt.	ADC	3 r 3 5000	
Burton AF Aux. Ambrose, Tex.		allway field; 3500	

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·	SECRET				
Byrd Richmond, Va.	ADC	3 r; 5100			
Camp Wolters Mineral Wells, Tex.					
Campbell AFB Hopkinsville, Ky.	SAC	4 r; 8000; X	GCA		
Carswell AFB Ft. Worth, Tex.	SAC	1 r; 8200; Z	GCA; jf		
Casa Grande AF Aux. Ariz.	ATRC	4 r; 3700; M			
Castle AFB Merced, Cal.	SAC	1 r; 7000; X	GCA		
Chanute AFB Rentoul, Ill.	ATRC ADC	3 r; 6300; H	jf		
Cheyenne Tyo.		3 r; 7700			
Clear Springs Aux. New Braunfels, Tex.	ATRC	3 r; 5400; M			
Clovis AFB N.Mex.	TAC	4 r; 10,000; M			
Columbus AFB Miss.	ATRC	4 r; 4500			
Columbus AF Aux. Miss.	atro Inac	1 r; 5000			
Connally AFB Waco, Tex.	ATRC	5 г; 6400; н			
Craig AFB Selma, Ala.	ATRC	7 r; 5200; M			
Davenport AF Aux. San Antonio, Tex.	ATRC	allway field; 3400			
Davis-Monthan AFB Tucson, Ariz.	SAC ADC	4 г; 7900; н	jf		
DeSoto Farish Mansfield, La.	ATRC	4 r; 5100			

DobbinsApproved For Release 2002/05/2019 1002 1009 11 A0003000 10002-0 Marietta, Ga.

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Donaldson AFB Greenville, S.C.	TAC SECRI	IJr;	5500;	H	
Dover, AFB Del.	TAC ADC	3 r;	7000;	H	
Dow AFB Bangor, Me.	ADC	3 r;	7000;	x	jf
Duluth Mun. Airpt Minn.		3 r;	5700	·	. •
Edwards AFB Muroc, Cal.	AMC	2 r;	8100;	x	jf
Eglin AFB Valparaiso, Fla.	APG	3 r;	8000;	X	GCA; jf
Eglin AF Aux. #2 Valparaiso, Fla.		3 r;	8000;	H	
Eglin AF Aux. #3 Valparaiso, Fla.		3 r;	8000;	H	
Ellington AFB Houston, Tex.	ADC ATRC	6 r;	5200;	М	GCA
Ent AFB Colorado Springs, Colo.	ADC			:	
Ephrata Washington	SAC ALC	3 r3	7300		
Fairchild AFB Spokane, Wash.	SAC	3 r	80003	Н	GCA
Fairfax Kansas City, Kan.	ADC	4 r	6500		
Floyd Bennett (New York NAS) New York	ı	h r	5500		j£
Forbes AFB Topeka, Kan.	SAC	3 r	65003	H	
Friendship Internat'l Arpt Baltimore, Md.	ARDC	3 r ;	9500		
Gaskin AF Aux. Dorchester, Tex.	ATRC	2 r	; 4000;	L	
Geiger Field SAPPERES de Fern Release 200	ADC 04/07/28 : C SEURI	A RDI	8 20 0 79R009	971A0003000	j £ 020002-0

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General Spaatz	ADC SE	GRET 3 r; 5200	,
Reading, Pa.		m	
George AFB Victor, Cal.	AMC ADC	7 r; 7400; H	j£ .
Gibbons AF Aux. Sherman, Tex.	ATRC	allway field; 4800	
Gilbert AF Aux. Ariz.	ATRC	2 r; 4000	
Godman AFB Ft. Knox, Ky.	ADC	li ri 5200; L	jf
Goodfellow AFB San Angelo, Tex.	ATRC	3 r; 5500; N	j£
Goodyear AF Aux.		2 r; 5500; M	
Grandview Airpt. Kansas City, Mo.			
Gray AFB Camp Hood, Tex.		1 r; 8400; X	
Great Falls AFB Mont.	MATS	l r; 8900; u	GCA; jf
Greater Pittsburgh Coraopolis, Pa.	ADC	3 r; 6000; ₹	jf
Greenville AFB Miss.	ATRC	5 r; 4500; H	
Grenier AFB Manchester, N.H.	SAC ADC	3 r; 7000; x	
Griffiss, AFB Rome, N.Y.	ADC AMC	3 r; 6300; V	j£
Gunter AFB Montgomery, Ala.	AU	4 r; 3800; M	
Hamilton AFB San Rafael, Cal.	ADC	lr; 6300; µ	
Hanscom Field Mass.	ADC	3 r; 5000; x	jf
Hensley (Dallas NAS) Temproved For Release 200	ADC 04/07/28 : CIA	3 r; 7500; H A-RDP79R00971A0003000	20002-0
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Hill AFB Ogden, Ut.	SECRET	4 r3 7500; N	jf
Holloman AFB Alamogordo, N. Mex.	AMC ARDC	3 r; 8400; H	j f
Holman St. Paul, Minn.	ADC	4 r; 5500	
Hondo AFB Tex.	ATRC	l r; 6100	
Hunter AFB Savannah, Ga.	SAC	2 r; 7000	GCA; jf
Indianola AF Aux. Miss.		3 r; 4500	
'Kearney AFB Nebr.	SAC		
Keesler AFB Biloxi, Miss.	ATRC	2 r; 6500; H	
Kegelman AF Aux. Cherokee, Okla.		2 r; 5500; V	
Kell Wichita Falls, Tex.		4 r; 5500	ĵ f
Kellogg Battle Creek, Mich.	·	l4 r; l4800	
Kelly AFB San Antonio, Tex.	AMC MATS	5 r; 7500; H	GCA; jf
Kirtland AFB Albuquerque, N. Mex.	AMC	l r; 10,200; M	Instr.Land.Syst.; j:
Lagina Landing Strip		2 r; 5000	
Lake Charles AFB	SAC	4 r; 6200	
Lambert St. Louis, Mo.		3 r; 6000	
Langley AFB	TAC	2 r; 7000; V	GCA; jf

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ADC SECRET

SAC

2 r; 10,000; X

Va.

Larson AFB

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			,
Las Vegas B & G Range Tonopah, Nev.	#5 ATRC	2 r; 5000	
Lawson AFB Columbus, Ga.	TAC	3 r; 5900; n	j£
Limestone AFB	SECRET	1 r; 9200	GCA
Lincoln Nebr.		5 r; 7100	jf
Lockbourne AFB Columbus, O.	TAC	3 r; 5500; V	jf
Long Beach Cal.	ADC	5 r; 6900	
Loury AFB Denver, Colo.	ADC ATRC	2 r; 8300; M	jf
Luke AFB Phoenix, Ariz.	ATRC	5 r; 8500; M	j£
Luke AF Aux. #1 Wittman, Ariz.		4 r; 3900; L	
Luke AF Aux. #2 Beardsley, Ariz.		4 r; 3900; M	
Luke AF Aux. #3 Beardsley, Ariz.		4 r; 3900; L	•
Luke AF Aux. #4 Wittman, Ariz.	*	3 r; 3800; L	
Luke AF Aux. #5 Buckeye, Ariz.		3 r; 3800; M	
Luke AF Aux. #6 Buckeye, Ariz.		3 r; 3800; M	·
Luke AF Aux. #7 Arlington, Ariz.		2 r; 3800; M	
McChord AFB Tacoma, Wash.	TAC ADC MATS	3 r; 5900; x	GCA; jf
McClellan AFB Cal.	AMC	3 r; 7000; v	jf

MacDill AFB ADC 1 1 10,000; X GCA: jf TARRED VET FOR Release 2004 ADC 1 1 10,000; X GCA: jf

CONFREDER

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	SECO	461
	2 r ₃ 5000	
	3 r; 5500; m	
SAC	3 r; 8200; V	GCA; jf; F94's here on 24 hr. alert
	4 r ₅ 6000	jf
TAC SAC	4 r; 7000; X	GCA; jf
ATRC	2 r; 3000; M	
ATRC INAC	4 r; 6000; H	
ATRC	4 r; 7500; V	GCA
AU	4 rs 70003 V	GCA3 jf
AMC	2 r; 5400	jf
ADC TAC	4 r; 6500; M	jf
ADC	li r; 8700; x	j£
	8 r ; 5700	
	5 r; 6500	j£
ADC	3 r; 5700; H	GCA; jf
ATRC TAC	8 r; 5000; H	
SAC INAC	3 r; 10,000; H	
ATRC 04/07/28 : C	3 r; 6400 ; M :IA-RDP79R00971A000300	GCA; j£ 020002-0
	ADC TAC SAC ATRC ATRC AU AMC ADC TAC ADC TAC ADC TAC ADC ATRC TAC ADC ATRC TAC AC ATRC TAC ATRC TAC ATRC TAC TAC ATRC TAC TAC TAC TAC TAC TAC TAC TAC TAC TA	3 r; 5500; M SAC 3 r; 8200; V ADC 4 r; 6000 TAC 4 r; 7000; X ATRC 2 r; 3000; M ATRC 4 r; 6000; H INAC 4 r; 7500; V AU 4 r; 7500; V AMC 2 r; 5400 ADC 4 r; 6500; M TAC 4 r; 8700; X 8 r; 5700 5 r; 6500 ADC 3 r; 5700; H ATRC 8 r; 5000; H SAC 3 r; 10,000; H

SECRET

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		SEPORT	
Newark NoJo	ADC ALIC	2 r; 5900 SECRET	
New Castle AFB Wilmington, Del.	ADC	4 r; 7000	
Niagara Falls Mun. Airpt N.Y.	ADC	5 r ₃ 5500	
Northern Tullahoma, Term.		3 r; 5000; V	
Norton AFB San Bernadino, Cal.	AMC ADC	3 r; 7600; H	jf
Cffutt AFB Omaha, Nebr.	SAC	3 r ; 6100; X	GCA; jf
O'Hare-Chicago Internat'l Chicago, Ill.		4 r; 5800; v	jf
Olmsted AFB Middletown, Pa.		2 r; 5000	jf
Orlando, Mun. #1. Fla.	ADC ?	6 r; 5600; N	
Orlando AFB Fla.	CAC		
Oscode AFB	SAC	3 r; 5200; X	jſ
Otis AFB Falmouth, Mass.	ADC	2 r; 7000; V	GCA; jf
Oxnard-Ventura County Airpt Cal.		2 r; 4500	
Paine Field Everett, Wash.			
Parks AFB, Camp Parks Pleasanton, Cal.		÷	
Patrick AFB Cocoa, Fla.	ARDC	2 r; 7000; H	jf
Perrin AFB Sherman, Tex.	ATRC	4 r; 5200; M	
Peterson Field Colorado Springs, Colo. Approved For Release 200	SAC 04/07/ <u>28</u> ; C	3 r; 8500 A-BDP79R00971A0003000	20002-0

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A			
		SEGRET	.
Philadelphia International Pa.		4 r; 5400	
Pinecastle AFB Orlando, Fla.	ATRC		
Pope AFB Ft. Bragg, N.C.	TAC	3 r; 5200; ∇	jf
Portland Mun. Airpt Ore.		4 r; 5400; Y	
Prairie Hill AF Aux. Tex.	ATRC INAC	3 r; 4000; M	٠
Presque Isla AFB	MATS INAC ADC	3 r; 6800; H	j£
Pulliam AF Aux. Tex.	ATRC	2 r; 4300	
Pyote AFB Tex.	ANC	3 r; 8500; M	
Randolph AFB San Antonio, Tex.	ATRC	3 r; 7000; X	GCA
Rapid City AFB S. Dak.	SAC	2 r; 10,600	GCA;jf
Resse AFB Lubbock, Tex.	ATRC	3 r; 6500; M	jf
Rittenhouse AF Aux. Ariz.	ATRC	4 r; 3700; L	
River AF Aux. Aberdeen, Miss.	ATRC	1 r; 4300	
Robins AFB Macon, Ga.	AMC	3 r; 7000; H	jf
Rosecrans St. Joseph, Mo.		3 r; 6000	
Sa'marita Flight Strip Ariz.		1 r; 5400	
Sait lake City #1 Ut.		3 r; 6700	

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		SECLIET	
Sen Marcos AFB	ATRC	4 r; 6300; L	
Scott AFB Belleville, Ill.	ADC ATRC	3 r; 5400; N	jf
Selfield Selma, Ala.		3 r; 4000	
Selfridge AFB Mt. Clemens, Mich.	ADC CAC SAC	2 r; 6000; X	GCA; jf
Sequin AF Aux.	ATRC	3 r; 5400; M	
Sewart AFB Smyrna, Tenn.	TAC	2 r; 5500; V	jf
Show AFB Sumter, S. C.	TAC	5 r; 6800; H	GCA; jf
Shappard AFB Wichita Falls, Tex.	ATRC	L	
Sherman AFB Ft. Leavenworth, Kan.	TAC	2 r; 6000; L	
Silver Lake AFB Wash.	ADC		
Sionx City Ia.	ADC	3 r; 6900	
Sioux Falls S. Dak.	ADC	3 r; 5700	
Smoky Hill AFB Salina, Kan.		4 r; 10,000; H	
Spence AFB Moultrie, Ga.	ATRC	4 r; 5000	
Standiford By o		3 r; 5000; V	
Starkville AF Aux. Miss.			
Stead AFB Reno, Nev.	SAC	3 r; 8000	

Stewarpproped For Release 2004/00028: CIA-RDF79600971A000300020002-0
Newburgh, N.Y. TAC SECRET
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SECRET

	-		
Suffolk County Airpt Westhampton Beach, N.Y.	ADC	3 r; 5000	
Tinker AFB Oklahoma City, Okla.	ADC AMC	3 r; 7800; V	GCA; jf
Travis AFB Fairfield, Cal.	MATS	2 r; 8100; Z	GCA; jf; instr. land- ing system
Truax Madison, Wis.			
Turner AFB Albany, Ga.	TAC SAC	3 r; 7600; M	j£
Tyrdall AFB Panama City, Fla.	ATRC	4 г; 6100; н	GCA; jf
Vance AFB Enid, Okla.		4 r; 5500; H	
Vaughn AF Aux. Columbus, Miss.		1 r3 4000	
Walker AFB Roswell, N. Mex.	SAC	5 r; 8590; H	GCA; jf
Warren AFB Cheyenne, Wyo. ?	ATRC		
Washington National Washington, D.C.	MATS	4 r; 6700; v	
Westover AFB Chicopee Falls, Mass.	ADC MATS	3 r; 7300; H	GCA; jf; instr. land- ing system
wichita AFB Kan.		5 r; 10,000	jf
Will Rogers Oklahoma City, Okla.		4 r; 5100	
Williams AFB Chandler, Ariz.	ATRC	3 r; 6100; M	jſ
Williams AF Aux. #1 Ajo, Ariz.	ATRC	3 r; 3700; H	
Williams AF Aux. #2 Ajo, Ariz.	ATRC	3 r; 3700; L	
Williams to the #2	N Gm 4	2 m. 3700 · 7	

Williams AF AUX #3
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		SECRET	466
Williams AF Aux. #4 Gila Bend, Ariz.	ATRC	3 r; 3700; H	
Williams AF Aux. #5 Gila Bend, Ariz.	ATRO	3 r; 3700; m	
Williams AF Aux. #6 Gila Bend, Ariz.	ATRC	3 r; 3700; m	
Wold-Chamberlain Minneapolis, Minn.	ADC		
Woodring Enid, Okla.	ATRC	3 r; 6500; M	
Wright-Patterson AFB Dayton, O.	AMC	3 r; 8000; Z	GCA; jf
Youngstown Mun. Airpt Chio			
Zuehl AF Aux. Marion, Tex.	ATRC	2 r; 3000; L	

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TABLE II

AIR FORCE BASES (ZONE OF INTERIOR) SCHEDULED TO BE ACTIVATED BEFORE 30 JUNE 1952

Altus Municipal Airport

Ardmore " "

Charleston "

Foster Field

Fresno Air Terminal

Friendship International Airport

Herlingen Municipal Airport

Kinross AF Aux. Field

Laredo Mun. Airport

Laughlin AF Aux. Field

Lincoln Mun. Airport

Mismi International Airport

Raleigh-Durham Mun. Airport

Sedalia AF Aux. Field

West Palm Beach Internat. Airport

Altus, Okla.

Ardmore, Okla.

Charleston, S. C.

Victoria, Tex.

Fresno, Cal.

Baltimore, Md.

Harlingen, Tex.

Kinross, Mich.

Laredo, Texe

Del Rio, Tex.

Lincoln, Neb.

Miami, Fla.

N. C.

Sedalia, Mo.

W. Palm Beach, Fla.

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B

OVERSEAS AIRFIELDS

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TABLE III

UNITED STATES AIR FORCE AIR FIELDS, OVERSEAS

MAME	APO	COMMAND	REMARKS	Paragrant;
	Pacif	<u>io</u>		
Hickham AFB Torr, Hawaii	APO 953, SF			
Johnston Island AFB			Pacific	
Andersen AFB Guan	APO 249	SAC		
Clark AFB Philippines	APO 74, SF APO 719, SF	13th AF		
Kadena AFB Kadena, Okinawa	APO 331, SF	20th AF		
Naba AFB Okinawa	APO 239, SF	20th AF		
Brady AFB Japan	APO 343, SF	FEAF		
Tachikawa Japan	APO 323 , S F	feaf	·	
Yokota Honshu, Japan	APO 328, SF	Peap		
Misawa AFB Honshu, Japan				
Haneda Field Honshu, Japan	APO 226, SF	FEAF		
Itazuke Kyushu, Japan	APO 343 , SF	Feaf		
Ashiya AFB Kyushu, Japen	APO 343, SF	Feaf		
Johnson AFB Japan	APO 343, SF	TEAF		
Nagoya AB Honshu, Japen	APO 710, SF	FEAF		
Kimpo Airfield	APO 404, SF Release 2004/07/28:	FEAF		

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NAME NAME	APO			EGRATO	REMARKS 470
		4	Alaska		
Elmendorf AF3 Ft. Richardson, Alaska	APO	942,	Seattle	ALAC	Hq., Alaska Air Command
Eielson AFB Fairbanks, Alaska	APO	937,	Seattle	ALAC	Largest bomber base in Alaska
Ladd Field Alaska	APO	731,	Seattle,	ALAC	
Nakeek AFB					
Shenya AFB					Air Command Stations
Thornbrough AFB				}	A. A
Cape AFB					in the Aleutian Chain.
Amchitka AFB					
		C	aribbean		
Albrook AFB Canal Zone	APO	825, Orl	New eans	Cerib. Air Com.	Hq., Caribbean Air Command
Newfoundland	o Lei	brado:	r, Quebec	and the A	tlantic
Popperell AE3 St. Johns, Newfoundland	APO	862,	NY	NEAC	Hq. NE Air Command
Earnest Harmon AFB Stephenville, Newfoundland	APO	864 ,	NY	NEAC	
McAndrews AF3 Argentia, Newfoundland	APO	836 ,	NY	NEAC	
Goose Bay AFB Labrador	APO	667,	NY	NEAC	
					Construction funds appropriates
Crystal I Ft. Chimo, Quebac					
Ft. Chimo, Quebec					6,500 ft. runway.
Narsarsuak,					6,500 ft. runway. 3 other unnamed bases.
Ft. Chimo, Quebec Narsarsuak, Greenland					

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APO COMMAND REMARKS NAME the Atlantic (cont.) Kindley AFB APO 856, NY MATS Bermida Lagons AFB APO 406, NY MATS Azoros

Europe, Africa, and the Middle East

Bassingham * Bertfordshire. England

Bovingdon * Hertfordshire, England

Brize Norton Oxfordshire, England 3rd AF A new base.

Chicksand * Bedforshire, England

Fairford

3rd AF A new base.

Gloucestershire, England

Lakenheath Suffolk, England

Manston

3rd AF

Kent, England

A fighter escort base. 3rd AF

Marham Norfolk, England

3rd AF

3rd AF

Mildenhall Suffolk

Newbury Berkshire, England

Sculthorpe Norfolk, England 3rd AF

Upper Hayford Oxfordshire, England

A new base. 3rd AF

Waddington * Limcolnshire England

Wyton *

Hintingdonshire, England Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0

Named in an article in the Landsup Perly Worker, June 12, 1951, but not



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COMMAND REMARKS NAME Europe, Africa, and the Middle East (cont.) Wiesbaden APO 633, NY 12th AF Hq. 12th AF. Germany Furstenfeldbruck APO 208, NY 12th AF Bavaria, Germany Landsberg APO 61, NY 12th AF Hq. 2nd Air Division Bavaria, Germany Neuberg 12th AF Bavaria, Germany 12th AF Rhein-Main AllB Frankfort, Germany Tempelhof AFB Berlin, Germany Roberts Field MATS Liberia Being used only temporarily. Cazes Field Casablanca, Fr. Morocco Under construction. Mechra Bel Kuiri, Fr. Morocco Nouasseur, Fr. Morocco Under construction. SAC Rabata Fr. Morocco Hq. 5th Air Div. Sidi Slimane, Fr. Morocco Under construction. Fr. Morocco 2 other unnamed bases. MATS Wheelus AFB Tripoli Dhahran Air Transport Sta. MATS

Proposed and in Process

Barcelona, Spain Proposed Madrid, Seville,

Saudi Arabia

Approved For Release 2004/07/28 : CIA-RDP79R00971A009300020002-0 Valencia

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COMMAND

REMARKS

Proposed and in Process (cont.)

Lugo, Spain

NAME

Proposed

Timbaki Field, Crete, Greece

Horakleion Field, *

Kastelli Field

Mytilene, Lesbos

Martisa Field, Rhodes,

Mikra Field, Salonika,

Sedes Field,

Hellenikon Field, Athens "

Araxos, Peloponnesus,

Nicosia, Cyprus.

Inactive - Overseas

La Aurora, Guatemala

Barking Sands AFB

Torro Havaii

Bellows AFB Terr. Havaii

France AFB

Canal Zone

Howard AFB

Canel. Zone

Mingen

Cannda

Vernam AFB

Jamuilea

Waller AFB

Trinidad

Wheeler AFB

Terr. Hawaii Approved For Release 2004/07/28 : CIA-RDP79R00971A000300020002-0

To be Inactivated.

To be Declared excess.

To be Inactivated

To be Turned over to Army

To be Inactivated.

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SECTION V

WEAPONS

Next 23 Page(s) In Document Exempt

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SECTION VI

ELECTRONICS

COLUMENTIAL

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SECTION VI

ELECTRONICS

INTRODUCTION

At the end of World War II, almost all research and development on radar and other electronic equipment came to an end. For the next two years very little was done. In 1947 technical information on radar was declissified, and research and development began again in ever increasing amounts:

The development, during World War II, of very small radio tubes for use in proximity fuses was widely extended. As a result, electronic equipment designed since World War II, while more flexible and efficient than the equipment it replaces, also is generally smaller and lighter.

At the same time, this equipment is designed as a small number of component units rather than a large number of individual parts. Now, if a radio set fails to function, a dozen or so components are tested, rather than a hundred tubes and an equally large number of resistors, condensers, etc. Due to its small size, it is economical, and of course much quicker, to replace the whole equipment. Maintenance of electronic equipment, which became a major problem toward the end of World War II, has thus been greatly simplified.

As a result of the research and development done since the end of World War II, military electronic equipment has been developed which is of very high quality and variety. We are far ahead of any other country, except possibly for Great Britain, and we seem to lead her by a considerable extent. It should be noted that what we have are refinements of World War II equipments. Radically new devices, if any, have been well concealed.

Production, however, is a different matter. In the summer of 1951, Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0



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production of this new electronic equipment was sufficient in most cases to allow its installation in new aircraft, tanks, ships, etc., but not enough to permit refitting of previously constructed units. On the other hand, by the end of 1951, retooling and construction of new factories will be largely completed, and by the end of 1952 large quantities of the new electronic equipment will be available.

NOTE ON SOURCES OF INFORMATION

A large amount of important information came from Congressional hearings on Air Force and Army appropriations. The Navy released very little information in these hearings.

Newspapers and news magazines gave only a small amount of information.

Aviation magazines were the source of the largest amount of information. The most useful of these were:

American Aviation

Aviation Week

Skywaya

A moderate amount of information came from trade journals and industrial house organs. The most useful of these were:

Bell Lab Record

Electronics

Tele-Tech

A moderate amount of information came from journals such as:

Air Force

Anti-aircraft Journal

Combat Forces

Ordnance

United States Naval Institute Proceedings. Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0

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PART I

ELECTRONIC AIDS TO NAVIGATION

INSTRUMENT LANDING SYSTEM (ILS)

OMNIRANGE (VOR)

TERMINAL VERY HIGH FREQUENCY OMNIRANGE (TVOR)

DISTANCE MEASURING EQUIPMENT (DME)

GROUND CONTROLLED APPROACH SYSTEM (GCA)

AUTOMATIC GROUND CONTROLLED APPROACH SYSTEM (AGCA)

AIRPORT SURFACE DETECTION EQUIPMENT (ASDE)

AUTOMATIC DIRECTION FINDER (ADF)

COURSE LINE COMPUTERS

ALTIMETERS

AUTO PILOTS

AUTOMATIC APPROACH COUPLER

RADAR BEACONS

RADAR MEFLECTORS

SEARCH RADAR

CONTOUR BOTTOM SCANNER

WEATHER DETECTION

LORAN

OTHER LONG RANGE NAVIGATIONAL AIDS

SHORAN

RAYDIST

TABLE A

INSTRUMENT LANDING SYSTEM (ILS)

A transmitter near the end of the runway sends out a marrow beam, along which an aircraft should fly in order to land on the runway. A receiver in the aircraft detects and indicates any deviation, to right or left, or above or below, from this path.

This system is somewhat subject to invocuracies due to terrain and to atmospheric conditions.

See table A for numbers of ILS systems.

OMNIBANCE (VOR)

A VOR station consists of an unmanned transmitter which radiates two signals. A special airborne receiver compares these signals and indicates the direction from the aircraft to the transmitter. The signal is coded, so that the pilot can tell which station he is listening to.

It is planted to install, by the middle of 1954, about 500 VOR stations. This will be enough so that any point of any major civil air route in the U.S. is within range of at least one station. Numbers now in use and planted for the future are shown in Table A.

VOR transmitters work in the very high "requency (VHF) range, and so are not subject to interference by static. Tests show that errors rearely amount to more than 2 degrees, and this much only in hilly country. VOR signals can be received at 100 miles in an aircraft at 5000 feet, shorter distances at lower heights.

A VOR transmitter, including housing and equipment, cost \$65,000 to \$70,000 in 1950.

A number of makes of airborne VOR receiver; are available. They Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0

range in weight from 16 to 24 pounds and cost around \$600 in 1950.

Some military aircraft now have VOR equipment, and presumably most new military aircraft are so equipped, but it will be about 6 years before all military aircraft are.

TERMINAL VERY HIGH PRECIENCY OMNIRANCE TYOR)

A VOR system of lower power is under test by the CAA for use at airports. If successful, about 75 will be installed at major airports.

A VOR/IME system of very high precision is being developed by Sperry. It is hoped that with its sid an airport can handle 120 landings per hour.

DISTANCE MEASURING EQUIPMENT (DME)

A VHF signal from an airborne transmitter is received at the IME equipment, which is housed in a VOR toway. When received, another signal is transmitted to the aircraft. A suipment in the aircraft measures the lapse of time, which is a measure of the distance of the aircraft from the VOR tower. The result is indicated on a dial.

Since the airborne equipment includes both a transmitter and a receiver, it weighs 50 pounds, more than twice as much as VOR airborne equipment, and cost over \$5,000 in 1950.

Average accuracy with this equipment is about 2/10 of a mile.

An aircraft equipped with both VOR and IME equipment can find its position by contracting one ground station. With VOR equipment only, two stations must be within range for a position fix.

It is plaumed to install LME equipment at each VOR and HS station. See Table A for present and planned installations.

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Distance Measuring Equipment (DME) (Cont.)

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The Navy is interested in VOR, IME, and ILS equipment for carriers, but it is not known how far they have gone in installing or testing them.

GROUND CONTROLLED APPROACH SYSTEM (GCA)

This system consists of two radar sets and is placed near an airport runway. One of these, called an Airport Surveillance Radar (ASR) detects all sireraft within a distance of 30 to 40 miles. The information given by the ASR is used for the control of air traffic in the neighborhood of the airport. ASR's of 70 mile range have been installed at the airport in Washington, D.C., and at a few Air Force bases.

The other part of a GCA system is a Precision Approach Radar (PAR). This has a range of 4 to 5 miles. It detects, and displays on one scope, any deviation up or down from the path an aircraft should follow to land on the runway, and on another scope any deviation to the right or left. The distance of the aircraft from the runway is also indicated on both scopes.

Radio communication between the GCA station and the aircraft allows the GCA operator to inform the pilot of his position at any instant, and guides him till he is within a few feet of the ground.

The GCA radars are less subject to atmospheric and terrain disturbances than HS systems.

Have companies construct GCA systems: Gilfillan, Sperry, and Bondin. The first of these built over 100 sets during World War II, some of Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0

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Ground Controlled Approach System (GCA) (Cont.)

Present models fit in one medium size trailer, weigh about 7 tons, and can be operated by one man. They can be transported by plane.

Gilfilian alone is producing 1 GCA system each 48 hours. The cost of a GCA system was well over \$200,000 in 1950, and is \$400,000 to \$525,000 now, depending on the model.

More recent GCA systems are equipped with a Moving Target Indicator (MTI) which eliminates radar echoes from buildings, towers, clouds, etc., and shows on the scope school only from moving aircraft.

See Table A. for numbers of ASR and PAR.

AUTOMATIC GROUND CONTROLLED APPROACH SYSTEM (AGCA)

This consists of a GCA system and a computer.

The GCA set tracks the path of an aircraft. This information is fed into the computer. The computer controls, by radio, an auto-pilot in the aircraft, which measurers the aircraft so as to stay on, or return to, the correct path for a landing.

The whole process is automatic.

An AGCA system which can handle six aircraft at once is being evaluated by the Air Force.

Another system, which can handle three aircraft at once, creates an artificial glide path by actuating the IIS indicator as would an actual IIS beam. This system is being used by the Air Force.

AIRPORT SURFACE DETECTION EQUIPMENT (ASDE)

This is a radar set which surveys the airport, showing, even in fog and rain, any aircraft on and adjacent to the runways.

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Those cost \$200,000 apiece in This [

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AUTOMATIC DIRECTION FINDER (ADF)

50%

A signal from a VHF transmitter in an aircraft is used to find the direction of the aircraft from an airport. The information is displayed on the scope of an Airport Surveillance Radar and communicated to the pilot by radio. There are ADF installations at 32 Air Force bases.

These cost about \$10,000 each for the ground equipment. No extra airborne equipment is needed.

COURSE LINE COMPUTERS

These are nirborne equipments which use the information obtained from VOR and DME stations.

In one system under development in 1950, and probably being produced now, the desired course it fed into the computer by setting a dial. The computer them actuates an indicator headle, and it is only necessary to fly the aircraft to as to keep the needle centered in order to follow the desired course.

Another computer, elso under development in 1980 and scheduled for production this year, displays the course followed by the electric on a map of the region around a VOR/IME station. A pencil can be inserted in a pointer to draw a trace on the may of the course which the aircraft has followed. This should be especially useful to pilots of fighter aircraft, who wo not have much time for mavigation.

ALTIMETERS

No information except that refinements of westime electronic models have been developed.

AUTO PILOTS

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An autopilet, model F-5, for jet fighters is made by Lear. This is probably essentially the same as its model L-2 for small aircraft. The latter weighs 30 pounds and costs \$5,000. The F-5 is now in production. Lear has a contract for ever \$5,000,000 with the Air Force for this item.

Sperry's model A-12 autopilot is designed for use in heavy aircraft under all weather conditions. It probably weighs around 100 pounds. It is in production.

Westinghouse has developed an autopilot for jet fighters specifically designed to give unlimited maneuverability. It is being installed in the F-94-C.

This sutopilot can also be used, with radio control, in guided missiles.

Bendix makes a model FB-10 autopilot, but no other information on it was found.

Minnespolis-Honeywell makes a model H-6 autopilot for heavy aircraft. An experimental model weighed 140 pounds.

Both the Sperry A-12 and the Minneapolis-Roreywell E-6 have been adapted to helicopters. Experimental medals have undergone tests successfully. The former has also been adapted to blimps.

AUTOMATIC APPROACH COUPLER

This is an airborne computer which receives information from the IIS beam and automatically directs the autopilot so that the aircraft follows the correct path to the runway. These devices will bring an aircraft to within a few feet of the ground, at which point the pilot Approved For Release 2004/07/28: CIA_RDP79R00971A000300020002-0

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Automatic Approach Coupler (Cont.)

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takes over for the setual landing.

Lear, Sporry and Bendix are all producing these. They are now being used in our all-weather interceptors, but no other information on production was found.

RADAR BEACONS

The Coast Guard has four new radir beacons in operation and four more on order. A radar beacon (Ramark) is a continuously operating radar transmitter. It gives a strong right on a marine search radar scope, and thus allows the bearing of the ship from the beacon to be determined accurately and at a considerable distance.

The new model, TB-140, has better frequency stabilization than pravious, probably WW II, models and operates unattended.

Another type of radar beacon, which transmits a coded signal when queried by an airborne search radar, is called a Racon. These have been installed at 64 Air Force bases and Navy Air Stations in the U.S., and it is possible to fly coast-\o-coast using these beacons instead of VOR stations for direction findars.

During WW II many of our aircraft carriers had Racons, and presumably the same is still true.

A reder set known as IFF (Identification, Friend or Fos), developed ad used in WW II, is about the same thing an an airborne Racol. It is atill in use. (See FIRE CONTROL SYSTEMS, Siysweeper).

RADAR REFLECTORS

This is a device geometrically constructed so as to reflect back, Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0 in the same direction from which first any radar signal which hims

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Rader Reflectors (Cont.)

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14. It thus gives a strong echo and shows up clearly on a radar scope. The Coast Guard is experimenting with various types of these reflectors for installation on harbor buoys.

SEARCH RADAR

Airborne and marine search radars have a number of navigational uses, discussed below.

The standard airborns search rader at the end of the last war was model AN/AFS-10. This weighed, installed, about 200 pounds. A number of improved models have been announced.

Allison manufactures a lightweight (63 pound) unit, models E-2, ES-2, and ESB-2. At 10,000 feet, this set can see cities at 40 miles, mountains at 80, heavy aircraft at 25 miles, and light aircraft at 5. The ESB-2 model can be used to receive signals from radar beacons. This model was being evaluated by the Coast Guard in 1950.

Houston makes a model AN/APS-42, weighing 173 pounds. In August 1950 the Navy had 218 of these on order and the Air Force 113.

Westinghouse has developed a search radar set and has an \$8,500,000 contract for it.

Specifications for a model AN/APN-59, for navigational purposes, have been drawn up, and three prototypes are being built.

Virtually no other specific information of airborns search radar sets is available. The Radiomarine Corp. has manufactured 1250 commercial shipboard search radar sets. These have a range of 75 yards to 40 miles.

Search Radar (Cont.)

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ways. It gives a rough but useable picture of the ground in the vicinity of the aircraft. This is sometimes sufficient to establish the location of the aircraft. With the proper accessories, it can detect the signals from radar beacons. It can also be used to detect thunderstorms. Finally, it detects, even at night or through clouds, nearby aircraft.

Shipborne search radar is used in much the same way. In addition, there are five installations of shore-based search radars at harbors.

Using one of these, the operator can locate and follow the movements of all ships in the harbor. Appropriate warnings and instructions are sent to the ships by radio.

For navigation close to a shore, a device has been developed which throws the image of a map of the shore line on the radar scope. The image can be moved until it best matches the picture on the scope. The position of the ship can thus be located on the map.

CONTOUR BOTTOM SCANNER

This device projects a narrow beam of high energy sound waves through the water from the bottom of a ship. The length of time for the scho to return is a measure of the depth of the water. The beam is rotated from side to side, thus giving a cross-sectional picture of the bottom, about 50 degrees on each side.

Model AN/SQN-1 is being produced by the Edo Corporation.

WEATHER DETECTION

Search redars, airborne or on the ground, used by an experienced Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0 operator, can detect thunderstones argumulus clouds at great distances,

Weather Detection (Cont.)

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so that a pilot can avoid them. There are radars designed for this purpose at 44 Air Force bases in this country and at 4 civil airports.

The RAWIN GMD-1 radar set is an automatic tracking and printing direction finder. It follows the ascent of balloons to obtain meteorological data, chiefly, however, for artillery purposes. This set is under production.

The "Grasshopper", a device developed in WW II but not used then, has been further developed. This is a small radio transmitter which can be dropped by parachute. After a pre-determined time, it extends its collepsible legs, erects an antenna, and begins to transmit weather information. Another obvious use for this device is as a beacon for bombers.

LORAN

loren is the standard electronic aid to long range marine mavigation and to ravigation of aircraft over water.

A Loren station consists of two transmitters, located 200-400 miles apart. A pulsed radio signal is sent out from one transmitter. Then it reaches the second transmitter, the latter sends out another pulsed signal. A receiver in a ship or aircraft, by comparing the two signals, indicates which of a family of hyperbolic lines it is on. By receiving signals from two stations, its location can be found with a maximum error of about 5 miles. A Loren reading can be taken in 2 to 3 minutes.

To facilitate use of Loran, charts are prepared with the hyperbolic lines for each station drawn on the charts.

A Loran station cost about \$1,000,000 to install in 1950. It takes Approved For Release 2004/07/23 TOTA-RDP79R00971A000300020002-0

Loran (Cont.)

5 15

12 to 14 men to operate one station.

In 1950 we had 30 Loran stations located along the East and West coasts. Other stations abroad or newly installed are sufficient for coverage of the North Atlantic and North Pacific, including Alaska.

More stations are being added to cover the Gulf of Mexico approaches to the Panama Canal.

Loren reception is satisfactory over water up to 750 miles in the deptime and 1500 miles at night. It is little affected by weather conditions. Reception over land is poor.

An airborne Loren receiver weighs about 35 pounds, and lighter receivers are being developed. Sperry has developed and produced a ship borne receiver which is smaller and lighter than WW II models and is much easier to read.

OTHER LONG RANGE NAVIGATIONAL AIDS

Three systems are under development or evaluation.

There is one experimental <u>Neviglobe</u> station. A low frequency radio signal is used to give the bearing of the station from the aircraft. The useable range is expected to be about 1,500 miles, with a maximum of about one degree.

Consol is being evaluated by the Air Force. It has a range of 2500-3000 miles with good accuracy. It requires no extra equipment in the aircraft as it uses standard radio equipment. It yields both range and bearing.

Radux is being developed by the Navy. It has a range of 2,000 to 2,500 miles with an expectation of 2,000 to Approved for Release 2004/07/28 CCA-RDP 79R00971A000300020002-0 equipment weighs about 100 pounds. SECRET CONFIDENTIAL

SHORAN

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A Sheran station consists of two ground units located some miles apart. A pulsed signal is sent out from a transmitter in an aircraft. When it reaches a ground unit, another, coded, signal is returned. Comparing the times of arrival of the two return signals, the airborne unit indicates on which of a family of hyperbolic lines the aircraft is located. By using two stations, the location of the aircraft can be determined.

These transmitters operate at VHF, so are not affected by weather conditions, and are effective over land. On the other hand, the range is reduced to around 200 miles. The system is accurate to within 50 feet at this distance.

No information is available as to the number of Shoran systems in operation or being produced. It is now in use in Korea.

RAYDIST

A Raydist system consists of two transmitters, one fixed, on the ground, and one carried in an aircraft, and a number of receivers located on the ground.

This system has about the same accuracy as a Shoran system, but the units are lighter and easily moved. The present range is about 50 miles, but can probably be extended to around 150.

Raydist is being evaluated by the Navy and by the Air Force.

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TABLE A

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ELECTRONIC AIDS TO NAVIGATION

Installed and operated by CAA:

	Sept. 1950	April 1951	Plenned for end of fiscal 1952 or sconer
ILS	99	127	190
VOR	271	400	450
DME	"සහභාගය	7	340*
ASR	4	49	70 **
PAR	4.	32	44
ASDE	అకాడు	্ পদ্ধ হল শ্ৰান	5
		•	•

*450 DME on order in March 1950. Production at rate of 40 per month by June 1951. Delivery complete early in 1952. 190 more ordered late in 1950.

**Two of these to be installed in Aleska and one at Honolulu-

OFERATED BY MILITARY IN 1951

US at least 3

VOR 60

GCA over 150 *

* 39 of those operated by the Navy, 9 of them outside of the U.S., and at least 12 more on order. 37 at Air Force bases in the U.S.

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PART II

OTHER ELECTRONIC DEVICES

Aids to Civil Defense

Anti-Submarine Warfare

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AIDS TO CIVIL DEFENSE

Some planning has been done on the problem of communications for civil defense, but these plans have not advanced sufficiently to result in much production of necessary devices.

Much of the communications burden is to be turned over to amateur radio operators.

A system for alerting police and fire departments, hospitals, etc. has been developed. Subaudible signals will be broadcast over local radio stations and will actuate alarms attached to ordinary receivers at these places. The design of these alarm systems is complete, but none have been produced.

ANTI-SUBMARINE WARFARE

There has been a tremendous amount of research and development, but no specific information is available.

The NW II devices, radar, sonar, magnetic airborne detectors, and sonobucys, have all been improved. There are a few hints of new devices.

BOMB SIGHTS AND BLIND BOMBING

For use in heavy bombers, the Air Force has a K-1 bomb aiming system. This contains both radar and optical elements and a computer, and is used for bombing in any weather and at altitudes up to 50,000 feet. It is used in the B-36, B-47 and B-52.

The cost of this bomb aiming system is \$250,000. (The Norden bombsight used in WW II cost \$2,500.)

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determined by the Shoran apparatus, is fed into a computer which also takes account of wind velocity, altitude, etc., and indicates when the bombs should be dropped. A modification of this system, now being used in Korea, uses an AN/NSQ-1 computer which remains on the ground. It sends flight instructions to the pilot and releases the bombs automatically at the proper time.

COMMUNICATIONS EQUIPMENT

In the matter of long distance communications, there is little specific information available.

The Air Force has 20,000 miles of private having telephone lines which form a military flight service network for the U.S. This network is used to coordinate and control movements of military aircraft. The CAA has a parallel system, and the two are tied together at appropriate points.

Increased facilities are being installed in Alaska, and presumably elsewhere, to meet air alert requirements. It is claimed that facilities are such that the Pentagon can be in direct 2-way communication with any U.S. bomber group at any time.

1951 is the third year of a five-year program devoted to modernizing and extending the world-wide communications system of the Air Force.

Most of the equipment will be delivered by the end of the current year, but it will take snother two years to complete installations.

There are two recent non-military installations which could be made available to the military if necessary. Pan American Airlines has just finished installing a radio network which permits voice communication from any of its bases with any 1/25 plants proved For Release 2004/07/255 plants proved P

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In this country, a chain of micro-wave relay stations, reaching from New York to San Francisco and Los Angeles, has been completed.

This chain can carry several hundred telephone conversations at once.

It is possible for the Pentagon to carry on three simultaneous telecon conferences with Field Headquarters.

There is more information available concerning short distance communications. A program is underway to switch to ultra high frequencies (UHF) all air-to-ground and air-to-air communications by the Navy, Air Force, and CAA. This will eliminate atmospheric disturbances and will make available more frequencies. The program is scheduled for completion in January 1953. 125 CAA stations are already so equipped. A combination transmitter and receiver, AN/ARC-27, is being produced. It covers 1,000 channels and is pressurized to eliminate arcing at high altitudes.

During the summer of 1951, production became large enough to allow all new aircraft to be fitted with UHF communication equipment. Older aircraft will continue with VHF equipment, of WW II type, until production can be increased.

For the Army, the Signal Corp has developed an integrated and flexible group of more than 30 radios, teletype equipments, and switch-boards. In general lighter and smaller than the equipment they replace, these have greater range and flexibility, and are easier to maintain.

Among them is a portable teletypewriter, weighing 45 pounds, against 225 for its predecessor, which can operate on both wire and radio circuits, and so can be used by paratroops, for example.

The AN/GRC-7 radio is typical of these new equipments. This set consists of two receivers, so that two frequencies can be monitored at once. Approved Frombalius & 2004 man painted at PDPTAROS 279 A 000 3000 2000 2-0

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transmitter and of the two receivers is 10-15 miles. All three are tunable over the whole assigned frequency band, while the SCR-508, which it replaces, could use only selected frequencies in this band. Provision is made for automatic rebroadcasting, on a different frequency, of a signal received through either of the receivers. Thus the unit can be made part of chains of units to give a greater range. The second transmitter, with a range of one mile, is used for communication with the new "handie-talkie" and other nearby CRC/7.s.

This radio matches in frequency the new "walkie-talkie", the AN/PRO-10, which replaces the SCR-300. The PRC-10 weighs about 20 pounds, less than half the weight of its predecessor, and has a range of 3-5 miles. This radio was the first of this new equipment to be put into production, and started coming off the production lines in quantity in the spring of 1951. The cost of this radio, \$265 in 1950, has now increased to \$125.

All the other units developed by the Signal Corps are either being readied for production or are under production now.

Among other items under development are a new field wire, half the weight of the wire now in use, a new field telephone, and a TV "walkie-talkie" which will allow 2-way aural and visual communication.

The Air Force has developed a new and much improved intercom system for large aircraft.

Despite these developments in short range communications, which augur well for the near future, the present situation is not satisfactory.

At the start of hostilities in Korea, all signal equipment was of WW II design, and only recently has the new equipment begun to appear.

Anti-aircraft battalions in particular complained of the non-durability

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and inconvenience of the old equipment. In recent large-scale exercises, in the Caribbean area and in Western Europe, a need for better communication was apparent. In the former, communications caused more difficulty than any other item, and in particular proved to be very susceptible to jamming.

COMPUTERS

Although not weapons, high-speed electronic computers are an important part of our military program.

Many problems arising in aircraft design, construction of firing table; etc., lead to very long numerical calculations. Our possession of a number of high-speed digital computers is thus a considerable asset, although a long-term rather than a short-term one.

Other types of problems can be solved with the aid of analogue computers. For example, the effect on the performance of a guided missile caused by changes in the dimension of a particular component can be predicted by an analogue computer. This is of course much quicker and cheaper than actually building missiles with various sizes of this component and testing each one.

A number of analogue computers have been built for guided missile work by Boeing, Reeves Instrument Corp., RCA Laboratories, M.J.T., California Institute of Technology, etc.

Another use for high-speed computers has been found by the Air Force, which uses one for budgeting and requirements work.

COUNTER MEASURES AND COUNTER COUNTER MEASURES

Although there has evidently been much research along these lines, little Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0 information about results is available.

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A device has been developed for prematurely exploding a VT fuse. This will reach service testing in 1952.

Large quantities of radar jamming equipment were left over at the end of WW II. A recent report claims that Russia is now installing large quantities of search and warning radars of German WW II type, against which our jamming equipment would be very effective.

It was learned in WW II that the most effective counter countermeasure was a well-trained radar operator. In this connection, see TRAINING DEVICES, 3.

FIRE CONTROL SYSTEMS

The SCR-584 tracking radar and the M-9 computer were the fire control equipment for anti-aircraft use at the end of NW II. The success of this combination is well known. Until 1950, although there was some research and development work, there was little construction of new equipment. A recent picture (Life, Jan. 22, 1951) shows an AA battery with WW II equipment.

Early in 1951, Western Electric had a \$137,000,000 contract for production of an anti-aircraft fire control system developed by Bell Laboratories. This system is a refinement and integration of the SCR-584 and M-9. It collects and uses more information on the hostile aircraft, and is more accurate. It was designed with the newer high speed aircraft in mind.

The entire equipment fits inside a van about the size of the one used for the SCR-58h and is light enough to be carried by air. It can direct both 90 and 120 mm. guns.

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Another fire control system, "Skysweeper" is designed for 75 mm. guns, which are to replace the 40 mm. anti-aircraft guns used in WW II. This has a built-in radar device which prevents firing against friendly targets. It can also be used against tanks.

In 1950, the Army had 6 of these and planned to order over 300 more.

At the end of WW II, satisfactory airborns fire control systems had
not been achieved. However, a necessary preliminary step had been taken

in that a device had been constructed for testing the accuracy of proposed systems. The construction of a similar device for ground-based fire control systems led rather quickly to the M-9 computer. Since research on airborne systems was continued without interruption after the end of WW II, there is a high probability that an airborne computer as effective as the M-9 has been developed.

In any case, the B-36 and B-50 are now equipped with centralized fire control systems in which a tracking radar follows an attacking aircraft and an automatic computer, taking into account air speed, drift, altitude, etc. and the track of the attacker, computes the aiming point and fires the guns automatically.

Both General Electric and Westinghouse manufacture these fire control systems.

For further evidence of the extensive use of such systems in heavy tombers, see TRAINING DEVICES, 1.

For fighters, Sperry manufactures an A-12 gunsight. This device throws a small circle of light on the windshield. The pilot manoeuvers to keep his target within this circle. As long as he does so, his guns approved for Release 2504/01282 1282 RDP79R00971A000300020002-0

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Plans are being developed for coupling this device with an autopilot, so that the whole operation will be automatic.

The all-weather interceptors F-9h and F-89A can be fitted with a completely automatic fire control system which tracks the target, controls the autopilot, and fires the guns at the proper time.

For the training of pilots of these aircraft, a rigid glider target, X-27A, is used.

At the beginning of WW II, Navy ships were equipped with M-3 and M-1 fire control systems. During the war improved systems were designed, and by the end of the war about half the original equipment had been replaced. Since then, further improvements have been made, but no details are available.

One such improvement is equipment, now being produced, which connects a search radar with the tracking radar of an antiaircraft fire control system. When an enemy aircraft is detected by the search radar, it automatically points the tracking radar at it when it comes within range.

Bell Telephone Laboratories have developed a computer for ground-to-air guided missiles. It receives information from a tracking radar, such as the SCR-584, computes the proper course for the missile, guides it by radio, and explodes it at the proper instant.

MINE DETECTORS

A new model, AN PRS-3, which will detect metallic mines at a depth of three feet, against one foot for WW II models, and in any kind of soil, has been developed. This will also operate under water. This item costs about \$5,000. About 400 have been ordered.

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MORPAR RANGING

Model AN/AMPQ-10 mortar-ranging radar is under production. It will be standard equipment for 105 mm. howitzer battalions. This set is used to locate enemy mortar batteries by tracking their projectiles.

New, simplified techniques for using this and other radar equipment have been developed.

A search radar is also designed for locating enemy artillery.

RADAR WARNING NET

This consists of a chain of radar stations for the detection of enemy aircraft. These stations are located along the East and West coasts, in Alaska and along the polar frontier of Canada. A recent agreement with Denmark will allow further stations in Greenland. In addition, three critical area: in the U.S. are protected by a second, inner chain. These are the Pacific Northwest, the Great Lakes area, and the Northeast. Finally, Navy picket ships extend this chain out to sea. It is planned to have all installations completed and operating by November, 1951.

A total of \$160,750,000 has been appropriated for this warning net.
This money has been used as follows:

Land construction

\$85,500,000

Electronic equipment

68,250,000

4 Navy picket ships

7,000,000

The expenditure for electronic equipment falls into 2 parts:

To the Air Force for NW II equipment

\$42,250,000

For new equipment

25,000,000

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Presumably, most of the WW II equipment went into the inner chain, which was put into operation in 1950. Of the \$85,500,000 for construction, at least \$30,000,000 and probably more, was for installations in Alaska.

Known locations of warning stations are Roslyn, N.Y.; Sandy Hook;
Murphy Dome and Fire Island, Alaska; Iowa; Wisconsin and Minnesota.

The West Coast was covered as far down as North Bend, Ore., in 1950,
and the East Coast as far down as Norfolk, Va.

A radar warning station is a very large affair. The electronic equipment for one of the new stations occupied 50 freight cars. A rubber dome to protect the antennae in the Arctic is 37 feet high and 54 feet in diameter. Estimates of the number of men needed to operate a station range from 100 to 400. Presumably the smaller figure is for a station using WW II equipment. A total of 25,000 men is now on duty operating the warning net, though this figure may include the personnel of the Ground Control Intercept stations and the Air Defense Control Centers.

The maximum range of a warning station is 100 miles for WW II equipment and 150 miles for the new equipment. At extreme range only high altitude aircraft can be detected, since the radar beam follows almost a straight line.

The new electronic equipment for a warning station costs \$1,600,000 for the first few units.

On the basis of the information above, it is possible to make an estimate of the effectiveness of this warning net. Assuming that the electronic equipment cost \$1,600,000 for each of the first five units, and that thereafter the cost dropped to \$1,000,000 (this is in line with experience with other electronic equipment) the \$26,000,000 for new

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equipment would give 23 stations for the outer chain. The range of each station being 150 miles on each side, these 23 stations would form a chain 6,900 miles long. The total distance, along the West Coast, through Northern Canada, and down the East Coast, is about 8,000 miles. This about 85 per cent of this is covered.

If all the electronic units cost \$1,600,000, 16 would be available, which would cover 60 per cent of the 8,000 miles.

Note, however, that this coverage is for high altitude aircraft only. Additional units would be necessary to catch low-flying aircraft at the points midway between stations.

A widely quoted estimate of the cost of complete coverage is \$5,000,000,000. This seems to be in error. Assuming that \$26,000,000 would procure only 16 units and that all the \$85,000,000 was used for construction at these stations, then a complete double ring of stations, upaced only 200 miles apart, would cost a little more than \$500,000,000,000,000 one tenth of the estimate.

Future developments lie in two directions. Even larger radar sets, with a range of 200 miles or more, are under development. More picket whips will be added. The Navy is planning to convert twelve destroyers and four submarines to this use. In addition a PO-IW radar picket.

FEMOTE FLIGHT CONTROL.

A new remote flight control system was developed in 1950 by Lear and Philos. This utilizes two television cameras in the controlled aircraft, one to show the horizon and one the instrument panel. There are two control stations. One is on the ground and controls take-offs and Approved For Release 2004/07/28: CIA-RDP79R00971A000300020002-0 landings. The other is in a mother aircraft. Control can be switched

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The controlled aircraft uses a Lear model F-5 autopilot, but individual controls can be actuated if desired.

One use of this system is for dangerous flight tests.

Three of these units are to be delivered to the Air Force in 1951.

SEARCH AND RESCUE.

A Crash Locator Beacon has been developed by the Air Force.

Carried in the tail of an aircraft, it is thrown out and goes into operation automatically after a crash and provides a homing beacon for search planes. It will also operate under water. It weighs 50 pounds. This is not yet in production.

A new Distress Radio, to replace the "Gibson Girl," has been developed.

It weighs only 6 pounds, against 35 pounds for its predecessor, works

at very high and ultra high frequencies, and has a range of 80 miles.

The Air Force rescue boat, A-3, will be equipped with radio controls so that the pilot of the rescue plane can direct the boat, after it has been dropped, to the proper location. All A-3's will be so equipped by early 1952.

SNIPERSCOPE

An improved sniperscope is in quantity production and is being used in Korea. A sniperscope consists of a searchlight which emits invisible infra-red rays and a device which makes visible, in a small telescope mounted on a rifle, the reflected rays. It thus allows the detection at night of objects up to 75 yards away without any indication to the enemy.

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TRAINING DEVICES

In addition to the famous Link trainer, and its counterpart for the ground training of jet pilots, there are a number of devices for training operators of electronic devices. The Air Force now has over 750 of these, and the current budget allows for another 250. The Navy also uses some of these trainers, but no estimate of numbers is available.

- 1. A gur-laying trainer, to train heavy bomber crews in the operation of fire control systems. There are on hand about 35 of these.
- 2. A bombing trainer, to train bombardiers of heavy bombers in the use of the K-1 bomb-aiming system. There are 173 allowed for in the current budget.
- 3. A radar jaming kit, attached to the K-1 training device, to train operators in the use of this system in the face of enemy countermeasures. There are on hand about 60.
- 4. An interceptor mission trainer. This is used to train pilots and radar operators of all-weather interceptors. There are on hand about 28 of these. Ultimately each all-weather interceptor squadron will have one of these trainers.
- 5. A navigation trainer, to train pilots and navigators in the use of VOR/DME, IIS, and GCA equipment. There are on hand about 110 of these.
 - 6. A Loran trainer. There are on hand about 50 of these.
 - 7. A Shoran trainer.

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